Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

Reserve
aS21
.A75U45

Dairy Herd Improvement Letter

Vol. 51, No. 3

ARS-NE-60-2

NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM
A dairy recordkeeping plan for every herd

U.S. DEPT. OF AGRICULTURE
NAT'L AGRIC. LIBRARY
RECEIVED
NOV 5 '75
PROCUREMENT SECTION
CURRENT SERIAL RECORDS

Animal Physiology and Genetics Institute

AGRICULTURAL RESEARCH SERVICE • U.S. DEPARTMENT OF AGRICULTURE

683376

Dairy Herd Improvement Letter

USDA-DHIA HERD AVERAGE SUMMARIES, 1974-75 ~~1/~~

1974-75 Official Averages - 13,421 Lb Milk, 505 Lb Fat
1974-75 Owner-Sampler Averages - 12,503 Lb Milk, 475 Lb Fat

This letter contains herd averages on a State and national basis for milk and fat production, feed, feed cost, and milk value for the 1974-75 DHIA test year (May 1, 1974 to April 30, 1975) for the Official DHI, DHIR, and Owner-Sampler plans. The 11 Dairy Records Processing Centers send the rolling herd averages to the Animal Improvement Programs Laboratory (AIPL), Animal Physiology and Genetics Institute (AP&GI), ARS, USDA, for all herds that have completed a 12-month testing period by the end of the State test year (ending within the national test year).

Four sets of data are presented. The first includes the production data on a cow-year basis for all herds. The second includes production data and averages on a cow-year basis for feed amounts, feed costs, and milk prices for those herds whose owners have reported this information. The third includes cow-year averages within breed by milk production level. The fourth includes cow-year averages within breed by herd size.

Tables are presented to show the cow-year production averages for Official testing and for Owner-Sampler testing. These production averages are applied to the respective enrollment in each plan and are quoted as the production averages for all cows in the United States in each plan. We have long referred to those herd records that contain feed, feed cost, and milk price information as "complete" and will continue to do so in this letter. Averages for complete records are given in separate tables.

The records are edited in the laboratory to avoid duplication, to restrict data to the correct test year, and to keep items of herd data within established limits. The tables for production summaries and for complete records include only those records that have passed USDA editing. During the 1974-75 test year, 92 percent of the herds and 91 percent of the cows enrolled in Official plans were included in valid records for production. Sixty-three percent of the herds and 53 percent of the cows were included in valid complete records.

1974-75 Official DHI and DHIR averages.--The summaries show that in the 1974-75 test year, cows on Official test produced an average of 13,421 pounds of milk and 505 pounds of fat. The number of cows per herd averaged 75.0 in 1974-75.

1/ Prepared by Gerald J. King, dairy husbandman and Barbara R. Wood, computer technician, respectively, Animal Improvement Programs Laboratory, Animal Physiology & Genetics Institute, ARS, USDA, Beltsville, Md. 20705

For 1974-75, records were reported for 2,216,817 cows in 29,543 herds on Official test.

Table 1 lists State and national totals for herds and cow-years and averages for cows per herd, percent days in milk, and milk and fat production for Official herds in 1974-75. Fat percent was 3.76, and average percent days in milk was 85.

Tables 2 and 3 are the tabulation of all Official herd records by breed for six breeds, plus mixed and other breeds, stratified by milk production level and herd size, respectively. It should be remembered that many larger herds have only production reported, so they do not appear in the summary of "complete" records.

Table 4 includes State and national totals for herds and cows, as well as cow-year averages for percent days in milk, production, feed, value of product, cost of concentrates (CONC.), and feed cost of Official herds whose owners have submitted this information. Concentrates fed were 51 cwt.; succulent (SUCC.) forage fed was 123 cwt.; dry forage fed was 29 cwt.; and reported pasture days were 110. Value of production was $1,114, and feed cost was $527, so that income over feed cost was $587.

Tables 5 and 6 are the tabulation of the Official complete herd records by breed for six breeds, plus mixed and other breeds, stratified by level of milk production and herd size, respectively.

1974-75 Owner-Sampler averages.--In the 1974-75 test year, 610,910 cows in 14,704 herds on Owner-Sampler (O-S) test reported records averaging 12,503 pounds of milk and 475 pounds of fat (table 7).

Summaries of Owner-Sampler herd records for the 1974-75 test year are shown in tables 7 through 12. Trends in production and feeding were much the same for Owner-Sampler as for Official herds.

In tables 4, 5, 6, 10, 11, and 12, the averages for days in milk and for each feedstuff have been calculated by using only the cow-years for herds reporting that information. So the averages printed are, in many cases, representative of fewer cows than the number listed. In all tables, butterfat percent applies to the average milk and fat on any given line.

Superiority of tested cows.--Figure 1 and table 15 show the production levels of cows on Official test and on Owner-Sampler test compared with all other cows. Cows on Official test now have a superiority of 4,054 pounds of milk each over cows not enrolled in Official testing, while cows on Owner-Sampler test showed a superiority of 3,244 pounds over cows not enrolled in either Official or Owner-Sampler testing.

Historical summaries of testing programs.--Tables 13 through 16 contain summary data for various periods for cows on Official test, cows on Owner-Sampler test, and all U.S. cows.

ALPHABETIC BREED CODES

The only acceptable breed codes on lactation and herd average records are now alphabetic as follows:

Ayrshire = A
Guernsey = G
Holstein = H
Jersey = J
Brown Swiss = B
Milking Shorthorn = M
Red Dane = D
Red and White = W
Mixed = X

ERRATA

Two changes should be made in the Dairy Herd Improvement Letter, Vol. 51, No. 2, ARS-NE-60-1.

Page 2--the second sentence of the fourth paragraph should read as follows:

> In 1970, 40 AI organizations sold semen from 26 beef breeds, and in 1973, 41 AI organizations sold semen from 36 beef breeds....

Page 14--in table 7 change the figure for total units from 3,107,763 to 3,108,161.

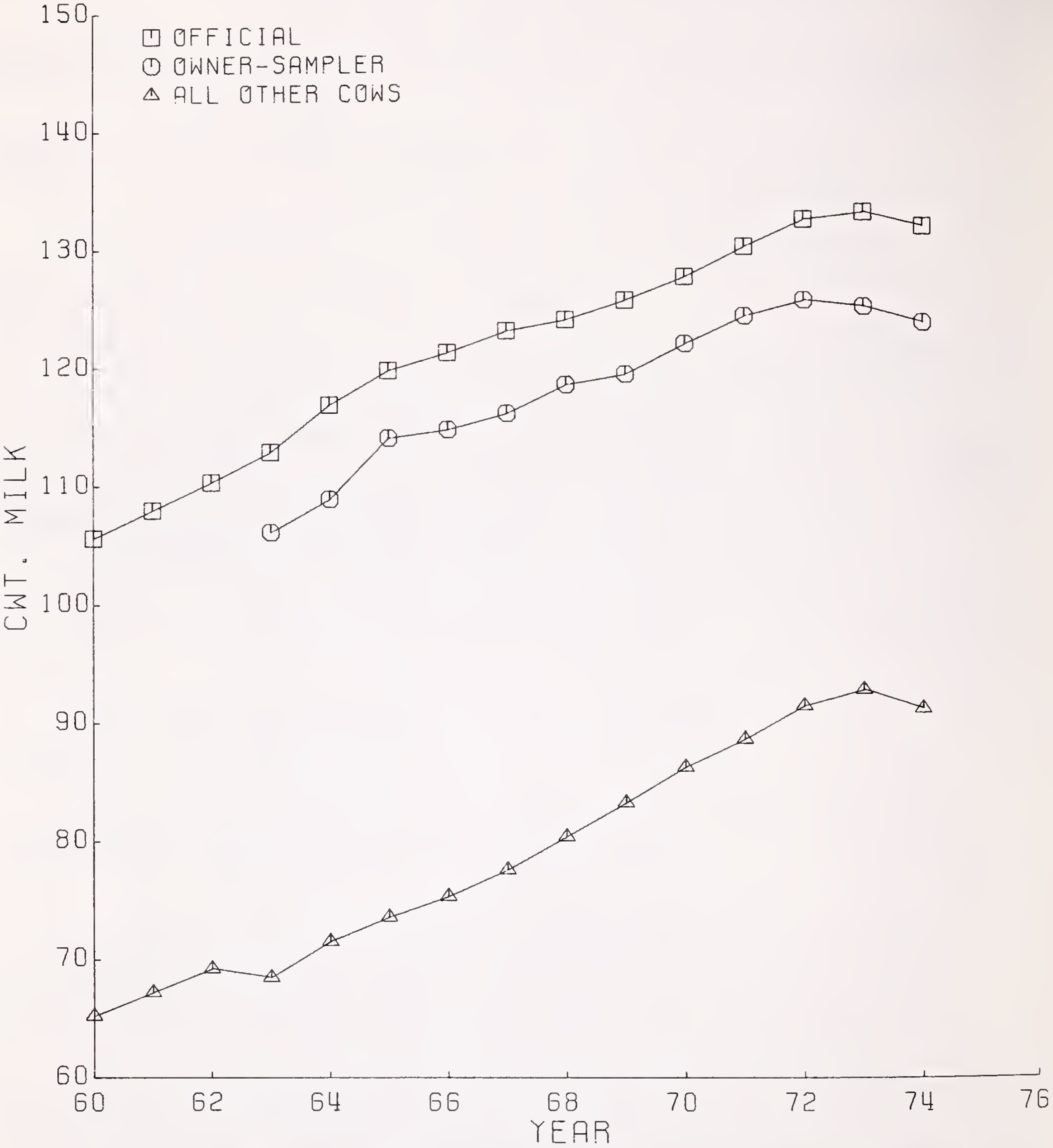

Figure 1.--Comparison of milk production for cows on Official test, Owner-Sampler test, and all other cows.

TABLE 1.--STATE AND U.S. COW-YEAR AVERAGES FOR ALL OFFICIAL HERD RECORDS MAY 1, 1974 - APRIL 30, 1975 1/

STATE	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	COW-YEAR AVERAGE PRODUCTION		
					MILK	FAT	FAT
	NO.	NO.	NO.	PCT.	LB	PCT.	LB
ALABAMA----------	217	26,713.1	123.1	84	11,757	3.79	446
ALASKA-----------	2	60.6	30.3	88	14,043	3.38	474
ARIZONA----------	72	29,030.7	403.2	84	14,124	3.67	519
ARKANSAS---------	83	5,127.1	61.8	82	12,432	3.61	449
CALIFORNIA-------	1,091	339,576.9	311.3	85	14,922	3.73	556
COLORADO---------	197	19,392.9	98.4	86	13,570	3.63	492
CONNECTICUT------	281	21,227.1	75.5	86	13,788	3.84	529
DELAWARE---------	38	2,701.7	71.1	88	14,580	3.77	549
FLORIDA----------	39	9,490.9	243.4	84	10,784	3.71	400
GEORGIA----------	254	30,155.3	118.7	84	12,429	3.68	458
HAWAII-----------	11	4,027.5	366.1	83	12,404	3.09	383
IDAHO------------	383	27,901.0	72.8	86	13,239	3.80	503
ILLINOIS---------	987	51,386.1	52.1	86	12,736	3.86	491
INDIANA----------	760	42,331.6	55.7	86	12,882	3.84	495
IOWA-------------	1,336	60,047.7	44.9	84	12,204	3.82	466
KANSAS-----------	655	41,279.1	63.0	84	12,688	3.70	469
KENTUCKY---------	363	22,888.7	63.1	84	12,026	3.69	444
LOUISIANA--------	267	24,522.1	91.8	83	10,632	3.65	388
MAINE------------	324	18,293.8	56.5	86	13,238	3.75	496
MARYLAND---------	535	42,091.0	78.7	86	13,588	3.80	516
MASSACHUSETTS----	279	18,115.0	64.9	86	13,151	3.74	492
MICHIGAN---------	1,110	77,051.0	69.4	87	13,533	3.79	513
MINNESOTA--------	3,117	140,104.7	44.9	86	13,341	3.78	504
MISSISSIPPI------	192	17,992.3	93.7	84	11,471	3.71	426
MISSOURI---------	503	34,056.4	67.7	84	12,320	3.70	456
MONTANA----------	51	4,236.8	83.1	86	13,228	3.67	486
NEBRASKA---------	364	22,783.3	62.6	84	12,252	3.75	459
NEVADA-----------	29	5,905.2	203.6	85	12,840	3.63	466
NEW HAMPSHIRE----	171	10,635.4	62.2	85	12,964	3.81	494
NEW JERSEY-------	211	15,536.3	73.6	86	13,601	3.79	516
NEW MEXICO-------	32	14,922.8	466.3	83	13,587	3.49	474
NEW YORK---------	2,821	178,735.8	63.4	86	13,911	3.67	510
NORTH CAROLINA---	608	54,679.7	89.9	86	13,663	3.70	506
NORTH DAKOTA-----	95	5,267.2	55.4	83	11,605	3.67	426
OHIO-------------	1,389	76,782.0	55.3	87	13,639	3.83	523
OKLAHOMA---------	269	21,821.0	81.1	83	13,008	3.55	462
OREGON-----------	343	31,754.4	92.6	86	13,263	3.91	518
PENNSYLVANIA-----	3,075	163,310.0	53.1	85	13,211	3.89	514
PUERTO RICO------	67	14,636.8	218.5	80	8,396	3.23	271
RHODE ISLAND-----	18	905.0	50.3	85	12,964	3.81	494
SOUTH CAROLINA---	232	27,793.9	119.8	85	12,441	3.91	487
SOUTH DAKOTA-----	152	8,762.0	57.6	84	12,892	3.70	477
TENNESSEE--------	433	35,159.8	81.2	85	12,698	3.73	474
TEXAS------------	269	31,052.6	115.4	84	13,012	3.65	475
UTAH-------------	303	27,027.0	89.2	86	13,523	3.68	498
VERMONT----------	652	39,142.8	60.0	85	12,479	3.78	472
VIRGINIA---------	775	66,839.6	86.2	86	13,337	3.72	496
WASHINGTON-------	583	62,004.8	106.4	87	14,717	3.77	555
WEST VIRGINIA----	178	11,615.2	65.3	85	13,151	3.68	484
WISCONSIN--------	3,306	177,598.9	53.7	86	13,357	3.90	521
WYOMING----------	21	2,343.9	111.6	82	12,029	3.64	438
UNITED STATES----	29,543	2,216,816.5	75.0	85	13,421	3.76	505

1/ INCLUDES ALL PRODUCTION DATA REPORTED.

TABLE 2.--U.S. COW-YEAR AVERAGES FOR ALL OFFICIAL HERD RECORDS, BY BREED AND MILK LEVEL, MAY 1, 1974 - APRIL 30, 1975

MILK LEVEL	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB
			AYRSHIRE				
LESS THAN 6,500---	2	36.0	18.0	78	6,330	4.09	259
6,500 - 7,499---	5	207.4	41.5	81	7,037	3.85	271
7,500 - 8,499---	16	735.0	45.9	78	8,048	3.85	310
8,500 - 9,499---	39	1,541.3	39.5	82	9,023	3.98	359
9,500 - 10,499---	63	2,659.0	42.2	82	10,052	3.97	399
10,500 - 11,499---	101	4,906.3	48.6	84	10,979	4.00	439
11,500 - 12,499---	74	3,316.2	44.8	84	11,954	4.00	478
12,500 - 13,499---	42	2,274.3	54.2	85	12,937	3.92	507
13,500 - 14,499---	21	958.9	45.7	86	13,981	3.98	556
14,500 - 15,499---	5	298.7	59.7	86	15,019	4.01	603
16,500 - 17,499---	1	38.8	38.8	89	16,684	3.50	584
AVG.----ALL REC.--	369	16,971.9	46.0	84	11,178	3.97	444
			GUERNSEY				
LESS THAN 6,500---	27	1,201.3	44.5	79	5,711	4.55	260
6,500 - 7,499---	62	2,941.9	47.5	82	7,065	4.57	323
7,500 - 8,499---	125	7,385.7	59.1	83	8,050	4.62	372
8,500 - 9,499---	246	13,080.5	53.2	85	9,032	4.67	422
9,500 - 10,499---	322	19,022.4	59.1	86	9,995	4.67	467
10,500 - 11,499---	268	17,992.1	67.1	86	10,937	4.65	509
11,500 - 12,499---	161	9,973.8	61.9	87	11,908	4.70	560
12,500 - 13,499---	49	3,670.8	74.9	88	12,876	4.46	574
13,500 - 14,499---	19	892.9	47.0	88	13,883	4.68	650
14,500 - 15,499---	5	243.4	48.7	87	15,100	4.55	687
15,500 - 16,499---	1	38.4	38.4	91	16,189	4.48	725
AVG.----ALL REC.--	1,285	76,443.2	59.5	86	10,137	4.66	472
			HOLSTEIN				
LESS THAN 6,500---	41	4,421.0	107.8	80	5,876	3.40	200
6,500 - 7,499---	70	5,800.1	82.9	79	7,067	3.45	244
7,500 - 8,499---	192	14,543.8	75.7	80	8,085	3.62	293
8,500 - 9,499---	455	30,733.3	67.5	81	9,068	3.65	331
9,500 - 10,499---	1,078	72,349.8	67.1	82	10,068	3.68	370
10,500 - 11,499---	1,896	126,532.3	66.7	83	11,056	3.69	408
11,500 - 12,499---	3,251	224,028.4	68.9	84	12,038	3.70	445
12,500 - 13,499---	4,510	315,261.7	69.9	85	13,027	3.72	484
13,500 - 14,499---	4,927	371,652.7	75.4	86	14,000	3.70	518
14,500 - 15,499---	4,107	337,766.3	82.2	86	14,990	3.70	554
15,500 - 16,499---	2,643	230,290.9	87.1	87	15,960	3.68	587
16,500 - 17,499---	1,306	120,076.5	91.9	87	16,949	3.66	620
17,500 - 18,499---	410	46,047.3	112.3	86	17,926	3.64	653
18,500 - 19,499---	145	15,232.6	105.1	87	18,785	3.58	672
19,500 - 20,499---	30	2,313.9	77.1	88	19,954	3.63	725
20,500 - 21,499---	8	641.1	80.1	88	21,221	3.50	742
21,500 - 22,499---	6	743.5	123.9	88	21,623	3.70	800
23,500 - 24,499---	1	16.0	16.0	95	23,756	3.63	863
MORE THAN 24,499--	1	12.7	12.7	84	24,566	3.07	755
AVG.----ALL REC.--	25,077	1,918,463.9	76.5	85	13,844	3.69	511
			JERSEY				
LESS THAN 6,500---	46	2,369.2	51.5	80	5,849	4.89	286
6,500 - 7,499---	102	6,512.7	63.9	81	7,057	4.93	348
7,500 - 8,499---	205	14,343.3	70.0	84	8,057	5.00	403
8,500 - 9,499---	307	20,890.2	68.0	86	8,999	4.99	449
9,500 - 10,499---	290	24,436.8	84.3	86	9,991	4.97	497
10,500 - 11,499---	175	13,034.3	74.5	87	10,969	5.01	549
11,500 - 12,499---	47	4,018.5	85.5	88	11,876	4.95	588
12,500 - 13,499---	11	805.9	73.3	85	12,702	4.83	614
13,500 - 14,499---	3	141.2	47.1	89	14,233	5.03	716
14,500 - 15,499---	1	133.0	133.0	87	14,519	4.66	676
AVG.----ALL REC.--	1,187	86,685.1	73.0	85	9,372	4.98	467

TABLE 2.--U.S. COW-YEAR AVERAGES FOR ALL OFFICIAL HERD RECORDS, BY BREED AND MILK LEVEL, MAY 1, 1974 - APRIL 30, 1975--CONTINUED

MILK LEVEL	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB
			BROWN SWISS				
LESS THAN 6,500---	5	177.7	35.5	83	5,564	3.95	220
6,500 - 7,499---	10	437.8	43.8	78	7,049	3.90	275
7,500 - 8,499---	15	807.1	53.8	81	7,984	4.01	320
8,500 - 9,499---	47	2,086.5	44.4	81	9,070	4.06	368
9,500 - 10,499---	66	3,340.1	50.6	84	10,107	4.07	411
10,500 - 11,499---	93	4,179.4	44.9	85	11,065	4.09	453
11,500 - 12,499---	91	4,435.9	48.7	86	12,022	4.07	489
12,500 - 13,499---	80	4,267.9	53.3	86	13,024	4.09	533
13,500 - 14,499---	34	1,434.0	42.2	87	13,886	4.08	567
14,500 - 15,499---	14	726.3	51.9	87	14,864	4.12	612
15,500 - 16,499---	3	99.8	33.3	86	15,788	4.11	649
16,500 - 17,499---	2	480.6	240.3	86	16,974	4.01	680
AVG.----ALL REC.--	460	22,473.1	48.9	85	11,516	4.07	469
			MILKING SHORTHORN				
LESS THAN 6,500---	4	84.0	21.0	84	5,391	3.77	203
6,500 - 7,499---	8	273.2	34.2	76	7,115	3.70	263
7,500 - 8,499---	15	423.6	28.2	79	8,082	3.72	301
8,500 - 9,499---	9	307.6	34.2	83	9,151	3.81	349
9,500 - 10,499---	19	627.9	33.0	82	9,932	3.72	369
10,500 - 11,499---	15	566.9	37.8	82	10,984	3.71	407
11,500 - 12,499---	6	160.0	26.7	87	11,949	3.67	439
12,500 - 13,499---	2	91.6	45.8	83	12,666	3.62	459
15,500 - 16,499---	1	9.8	9.8	82	16,232	3.64	591
AVG.----ALL REC.--	79	2,544.6	32.2	81	9,561	3.71	355
			MIXED AND OTHER				
LESS THAN 6,500---	12	702.5	58.5	81	5,984	4.23	253
6,500 - 7,499---	34	2,474.8	72.8	80	6,999	4.11	288
7,500 - 8,499---	50	3,789.7	75.8	82	8,000	4.29	343
8,500 - 9,499---	89	6,823.9	76.7	83	9,023	4.30	388
9,500 - 10,499---	143	10,053.0	70.3	83	10,028	4.17	418
10,500 - 11,499---	175	11,795.5	67.4	85	10,990	3.89	428
11,500 - 12,499---	164	15,873.7	96.8	85	12,076	3.88	468
12,500 - 13,499---	166	13,302.0	80.1	85	13,002	3.81	496
13,500 - 14,499---	131	12,093.5	92.3	85	14,004	3.77	528
14,500 - 15,499---	70	9,260.9	132.3	86	15,030	3.83	576
15,500 - 16,499---	35	5,000.1	142.9	85	15,948	3.61	575
16,500 - 17,499---	13	1,303.8	100.3	86	16,829	3.67	617
17,500 - 18,499---	3	499.9	166.6	83	18,085	3.53	638
18,500 - 19,499---	1	261.4	261.4	87	19,261	3.10	598
AVG.----ALL REC.--	1,086	93,234.7	85.9	85	12,150	3.88	472

1/ INCLUDES ALL PRODUCTION DATA REPORTED. HERDS AND COW-YEARS ARE TOTALS.

TABLE 3.--U.S. COW-YEAR AVERAGES FOR ALL OFFICIAL HERD RECORDS, BY BREED AND HERD SIZE, MAY 1, 1974 - APRIL 30, 1975

HERD SIZE	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB
AYRSHIRE							
5.0 - 25---	80	1,349.1	16.9	83	10,845	3.98	432
25.1 - 50---	161	5,925.0	36.8	83	10,927	3.94	431
50.1 - 75---	82	4,879.4	59.5	84	11,239	3.95	444
75.1 - 100---	26	2,160.6	83.1	84	11,270	3.98	448
100.1 - 150---	15	1,762.6	117.5	84	11,871	4.04	480
150.1 - 200---	3	481.0	160.3	85	12,039	4.14	498
200.1 - 300---	2	414.2	207.1	81	10,703	4.00	428
GUERNSEY							
5.0 - 25---	157	2,763.3	17.6	85	9,807	4.68	459
25.1 - 50---	602	22,988.1	38.2	86	9,994	4.69	469
50.1 - 75---	312	18,864.9	60.5	86	10,058	4.71	474
75.1 - 100---	101	8,632.6	85.5	86	10,365	4.70	487
100.1 - 150---	60	7,233.8	120.6	86	9,993	4.70	470
150.1 - 200---	27	4,620.6	171.1	85	9,975	4.57	456
200.1 - 300---	12	3,031.8	252.7	85	10,423	4.54	473
300.1 - 400---	4	1,464.4	366.1	85	10,124	4.55	461
400.1 - 500---	6	2,600.6	433.4	85	11,300	4.44	502
500.1 - 750---	1	550.7	550.7	82	10,895	4.45	485
750.1 - 1,000---	2	1,759.0	879.5	81	10,069	4.53	456
1,500.1 - 2,000---	1	1,933.4	1,933.4	82	10,815	4.23	458
HOLSTEIN							
5.0 - 25---	1,158	23,100.2	19.9	85	13,483	3.72	502
25.1 - 50---	9,741	376,365.5	38.6	85	13,567	3.74	507
50.1 - 75---	6,974	424,186.2	60.8	86	13,627	3.71	506
75.1 - 100---	3,003	258,878.5	86.2	86	13,663	3.70	505
100.1 - 150---	2,340	280,693.5	120.0	86	13,600	3.68	501
150.1 - 200---	775	132,549.2	171.0	85	13,754	3.66	503
200.1 - 300---	543	130,890.0	241.0	85	13,808	3.66	505
300.1 - 400---	234	80,833.2	345.4	85	14,528	3.64	529
400.1 - 500---	129	56,749.0	439.9	85	14,954	3.64	544
500.1 - 750---	103	62,720.2	608.9	85	15,512	3.62	561
750.1 - 1,000---	40	33,979.2	849.5	84	15,303	3.64	557
1,000.1 - 1,250---	15	17,056.8	1,137.1	83	15,298	3.67	562
1,250.1 - 1,500---	7	9,835.1	1,405.0	85	14,603	3.53	516
1,500.1 - 2,000---	8	13,363.4	1,670.4	82	14,388	3.50	504
2,000.1 - 3,000---	6	14,152.0	2,358.7	85	15,379	3.57	549
MORE THAN 3,000 --	1	3,111.9	3,111.9	78	14,777	3.80	561
JERSEY							
5.0 - 25---	158	2,628.6	16.6	86	9,084	4.96	451
25.1 - 50---	387	14,673.0	37.9	85	9,094	4.97	452
50.1 - 75---	269	16,374.1	60.9	86	9,324	4.98	464
75.1 - 100---	146	12,651.4	86.7	85	9,168	4.93	452
100.1 - 150---	126	15,292.3	121.4	86	9,585	5.00	479
150.1 - 200---	47	8,042.6	171.1	86	9,289	5.07	471
200.1 - 300---	31	7,575.9	244.4	84	9,680	4.96	480
300.1 - 400---	14	4,679.7	334.3	85	9,948	5.05	502
400.1 - 500---	4	1,807.9	452.0	87	9,870	4.97	491
500.1 - 750---	5	2,959.6	591.9	84	9,271	4.90	454
BROWN SWISS							
5.0 - 25---	82	1,449.5	17.7	85	11,238	4.09	460
25.1 - 50---	235	8,675.1	36.9	85	11,296	4.11	464
50.1 - 75---	86	5,214.3	60.6	85	11,362	4.11	467
75.1 - 100---	26	2,234.2	85.9	85	11,750	4.07	478
100.1 - 150---	22	2,748.8	124.9	85	11,873	3.98	473
150.1 - 200---	4	753.0	188.3	83	10,204	3.93	401
200.1 - 300---	4	978.5	244.6	86	11,805	4.00	472
400.1 - 500---	1	419.7	419.7	86	17,035	4.05	690
MILKING SHORTHORN							
5.0 - 25---	32	540.7	16.9	81	9,323	3.68	343
25.1 - 50---	37	1,329.9	35.9	81	9,508	3.71	353
50.1 - 75---	8	466.8	58.4	82	9,663	3.78	365
75.1 - 100---	1	75.9	75.9	85	9,360	3.90	365
100.1 - 150---	1	131.3	131.3	81	10,833	3.60	390

TABLE 3.--U.S. COW-YEAR AVERAGES FOR ALL OFFICIAL HERD RECORDS, BY BREED AND HERD SIZE, MAY 1, 1974 - APRIL 30, 1975--CONT'D.

HERD SIZE	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB
MIXED AND OTHER							
5.0 - 25---	67	1,289.2	19.2	85	11,512	4.00	461
25.1 - 50---	406	15,654.5	38.6	84	11,480	3.95	454
50.1 - 75---	272	16,462.0	60.5	85	11,820	3.97	469
75.1 - 100---	120	10,360.5	86.3	84	11,629	3.94	458
100.1 - 150---	112	13,593.0	121.4	85	11,782	3.94	464
150.1 - 200---	34	5,990.6	176.2	84	11,772	3.94	464
200.1 - 300---	33	8,069.6	244.5	85	12,767	3.84	490
300.1 - 400---	19	6,695.2	352.4	84	13,423	3.69	495
400.1 - 500---	10	4,386.2	438.6	84	13,188	3.84	506
500.1 - 750---	8	5,042.0	630.3	86	13,855	3.80	527
750.1 - 1,000---	1	963.0	963.0	83	16,240	3.48	565
1,000.1 - 1,250---	3	3,116.4	1,038.8	83	11,736	3.83	449
1,500.1 - 2,000---	1	1,612.5	1,612.5	85	12,216	3.34	408

1/ INCLUDES ALL PRODUCTION DATA REPORTED. HERDS AND COW-YEARS ARE TOTALS.

TABLE 4.--STATE COW-YEAR AVERAGES FOR COMPLETE HERDS--OFFICIAL DHI (USDA-DHIA HERD SUMMARY DATA--MAY 1, 1974 - APRIL 30, 1975) 1/

STATE	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FORAGE	DRY FORAGE	PASTURE DAYS	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	VALUE OF PROD.	INCOME OVER FEED COST
	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
ALABAMA----------	197	23,550.7	119.5	84	11,721	3.80	445	56	106	10	272	384	539	4.68	1,165	626
ALASKA-----------	1	52.7	52.7	87	13,821	3.37	466	56	150	16	0	468	791	5.72	1,851	1,060
ARIZONA----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
ARKANSAS---------	83	5,127.1	61.8	82	12,432	3.61	449	51	27	29	244	325	565	4.56	1,048	483
CALIFORNIA-------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
COLORADO---------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
CONNECTICUT------	266	19,507.0	73.3	86	13,793	3.85	531	59	189	18	46	380	585	4.27	1,288	703
DELAWARE---------	38	2,701.7	71.1	88	14,580	3.77	549	52	172	17	100	349	543	3.74	1,308	765
FLORIDA----------	30	6,681.3	222.7	83	10,160	3.84	390	77	72	8	307	447	547	5.45	1,146	599
GEORGIA----------	244	28,565.0	117.1	84	12,342	3.71	458	65	145	9	223	430	593	4.86	1,220	627
HAWAII-----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
IDAHO------------	259	18,405.0	71.1	86	13,250	3.77	499	44	82	75	31	278	537	4.09	1,011	474
ILLINOIS---------	987	51,386.1	52.1	86	12,736	3.86	491	49	125	33	70	282	480	4.31	999	519
INDIANA----------	756	42,144.5	55.7	86	12,883	3.84	495	50	144	28	63	300	534	4.22	1,081	547
IOWA-------------	1,335	60,000.0	44.9	84	12,209	3.82	466	51	97	37	72	274	480	3.99	887	406
KANSAS-----------	654	41,247.8	63.1	84	12,693	3.69	469	55	100	43	81	322	581	4.63	999	418
KENTUCKY---------	356	22,481.1	63.1	84	11,973	3.69	442	44	121	20	150	271	436	3.69	1,023	587
LOUISIANA--------	267	24,522.1	91.8	83	10,632	3.65	388	49	36	22	340	322	465	4.47	1,032	566
MAINE------------	324	18,293.8	56.5	86	13,238	3.75	496	55	132	29	91	360	538	4.10	1,236	698
MARYLAND---------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
MASSACHUSETTS----	266	16,046.1	60.3	86	13,089	3.76	492	54	160	27	77	360	543	4.19	1,190	648
MICHIGAN---------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
MINNESOTA--------	3,111	139,864.5	45.0	86	13,349	3.78	505	51	126	41	39	262	486	3.68	992	506
MISSISSIPPI------	191	17,942.5	93.9	84	11,459	3.72	426	48	116	10	296	305	451	3.99	1,026	575
MISSOURI---------	499	33,864.8	67.9	84	12,347	3.70	457	50	69	31	166	313	552	4.51	959	407
MONTANA----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
NEBRASKA---------	361	22,654.1	62.8	84	12,277	3.75	460	49	113	38	40	286	506	4.16	900	394
NEVADA-----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
NEW HAMPSHIRE----	157	9,530.0	60.7	85	13,085	3.78	495	49	145	29	68	321	525	4.07	1,173	648
NEW JERSEY-------	208	15,229.3	73.2	86	13,583	3.80	516	49	130	19	88	310	552	4.10	1,176	624
NEW MEXICO-------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
NEW YORK---------	2,747	173,344.9	63.1	86	13,906	3.67	510	49	119	24	82	317	513	3.72	1,172	659
NORTH CAROLINA---	557	49,609.0	89.1	87	13,648	3.70	505	55	198	8	95	373	583	4.33	1,369	786
NORTH DAKOTA-----	95	5,267.2	55.4	83	11,605	3.67	426	46	79	51	62	239	488	4.27	857	369
OHIO-------------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
OKLAHOMA---------	266	21,329.0	80.2	83	13,062	3.54	463	55	43	56	153	334	622	4.83	1,089	467
OREGON-----------	52	4,731.7	91.0	86	13,481	3.92	529	53	102	56	74	336	616	4.63	1,162	545
PENNSYLVANIA-----	3,047	160,496.3	52.7	85	13,212	3.89	514	51	145	32	92	314	527	4.03	1,145	619
PUERTO RICO------	25	5,162.2	206.5	82	8,751	3.28	287	48	3	0	365	384	492	5.72	1,168	676
RHODE ISLAND-----	18	905.0	50.3	85	12,964	3.81	494	47	162	26	153	320	537	4.16	1,160	623
SOUTH CAROLINA---	231	27,349.1	118.4	85	12,419	3.92	487	55	157	15	227	374	560	4.58	1,259	699
SOUTH DAKOTA-----	152	8,762.0	57.6	84	12,892	3.70	477	49	100	47	51	262	462	3.64	929	467
TENNESSEE--------	433	35,159.8	81.2	85	12,698	3.73	474	48	166	14	143	317	505	4.02	1,177	673
TEXAS------------	264	29,878.3	113.2	84	13,060	3.65	477	63	45	50	222	391	602	4.67	1,189	588
UTAH-------------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
VERMONT----------	648	38,864.7	60.0	85	12,480	3.78	472	46	92	23	88	309	497	4.02	1,105	608
VIRGINIA---------	770	66,430.2	86.3	86	13,344	3.72	496	49	179	13	130	337	542	4.11	1,258	716
WASHINGTON-------	373	39,003.8	104.6	87	14,618	3.78	552	56	87	48	136	346	654	4.51	1,187	533
WEST VIRGINIA----	176	11,450.1	65.1	85	13,143	3.67	483	51	140	21	120	331	511	3.92	1,137	626
WISCONSIN--------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
WYOMING----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
UNITED STATES--	20,444	1,297,540.5	63.5	85	13,024	3.76	489	51	123	29	110	318	527	4.11	1,114	587

1/ HERDS DESIGNATED AS "COMPLETE" WHEN ALL FEEDS, COSTS, AND VALUE OF PRODUCT ARE REPORTED.

2/ THESE STATES HAVE PRODUCTION RECORDS INCLUDED IN THE PLAN, BUT NONE OF THE HERD RECORDS ARE "COMPLETE".

TABLE 5.--U.S. COW-YEAR AVERAGES BY BREED AND MILK LEVEL FOR OFFICIAL HERDS, MAY 1, 1974 - APRIL 30, 1975 1/

MILK LEVEL	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FORAGE	DRY FORAGE	PASTURE DAYS	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	VALUE OF PROD.	INCOME OVER FEED COST
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
AYRSHIRE																
LESS THAN 6,500---	2	36.0	18.0	78	6,330	4.09	259	30	95	19	124	183	338	5.33	540	202
6,500 - 7,499---	5	207.4	41.5	81	7,037	3.85	271	35	28	24	250	211	355	5.03	600	246
7,500 - 8,499---	15	707.8	47.2	78	8,042	3.83	308	35	87	38	162	210	382	4.74	620	238
8,500 - 9,499---	34	1,368.7	40.3	82	9,037	3.97	359	38	112	33	168	236	407	4.52	759	352
9,500 - 10,499---	53	2,252.0	42.5	82	10,043	3.96	398	38	112	36	152	231	406	4.05	851	445
10,500 - 11,499---	82	3,744.6	45.7	83	10,973	3.96	435	44	101	34	164	278	461	4.21	947	485
11,500 - 12,499---	62	2,864.2	46.2	84	11,967	4.00	478	46	111	39	151	289	483	4.05	1,017	534
12,500 - 13,499---	31	1,767.0	57.0	84	12,921	3.92	507	54	128	27	155	341	513	3.97	1,140	627
13,500 - 14,499---	16	659.4	41.2	84	13,902	3.96	550	50	123	33	147	341	536	3.85	1,219	683
14,500 - 15,499---	3	203.5	67.8	86	14,903	4.11	613	50	168	43	130	349	555	3.72	1,310	755
16,500 - 17,499---	1	38.8	38.8	89	16,684	3.50	584	52	70	49	153	340	494	2.96	1,355	861
AVG.--COMP. REC.--	304	13,851.4	45.6	83	11,075	3.96	439	44	109	34	159	276	457	4.16	948	491
GUERNSEY																
LESS THAN 6,500---	16	713.1	44.6	78	5,510	4.63	255	26	104	35	233	158	295	5.40	511	216
6,500 - 7,499---	49	2,336.1	47.7	81	7,064	4.54	321	33	100	27	192	200	363	5.14	640	277
7,500 - 8,499---	90	5,448.9	60.5	82	8,063	4.56	368	43	87	26	223	251	396	4.92	775	379
8,500 - 9,499---	171	8,927.4	52.2	85	9,010	4.66	420	40	98	31	169	242	417	4.62	825	408
9,500 - 10,499---	200	10,301.6	51.5	86	10,001	4.67	467	42	111	30	171	259	446	4.46	930	484
10,500 - 11,499---	162	9,442.1	58.3	87	10,928	4.69	513	48	122	28	168	297	488	4.47	1,046	558
11,500 - 12,499---	93	4,908.8	52.8	87	11,902	4.78	569	50	121	29	168	317	514	4.31	1,130	617
12,500 - 13,499---	26	1,564.7	60.2	88	12,959	4.53	587	54	114	26	182	345	570	4.40	1,148	579
13,500 - 14,499---	10	371.5	37.2	89	13,831	4.76	658	60	49	60	194	366	601	4.34	1,228	627
14,500 - 15,499---	2	106.1	53.1	88	15,112	4.43	669	50	92	17	172	281	518	3.43	1,265	747
15,500 - 16,499---	1	38.4	38.4	91	16,189	4.48	725	60	161	24	184	408	589	3.64	1,637	1,048
AVG.--COMP. REC.--	820	44,159.0	53.9	85	9,898	4.67	462	44	108	29	179	268	449	4.58	927	478
HOLSTEIN																
LESS THAN 6,500---	26	1,851.0	71.2	82	5,857	3.70	217	30	70	30	292	197	328	5.64	550	221
6,500 - 7,499---	52	3,542.9	68.1	80	7,044	3.53	249	35	89	30	275	242	381	5.41	680	299
7,500 - 8,499---	150	10,001.9	66.7	81	8,072	3.68	297	37	97	33	227	228	395	4.89	725	330
8,500 - 9,499---	361	23,868.9	66.1	81	9,071	3.64	330	41	123	31	193	257	432	4.76	793	361
9,500 - 10,499---	867	57,809.9	66.7	82	10,064	3.67	369	45	122	32	190	272	457	4.55	864	407
10,500 - 11,499---	1,453	92,717.0	63.8	83	11,048	3.67	406	46	131	34	171	281	483	4.37	931	448
11,500 - 12,499---	2,404	157,004.9	65.3	84	12,036	3.68	443	49	137	33	164	300	505	4.19	1,018	513
12,500 - 13,499---	3,253	207,040.9	63.6	85	13,011	3.70	481	51	145	33	155	315	525	4.04	1,100	574
13,500 - 14,499---	3,300	211,926.0	64.2	86	13,993	3.68	515	54	150	35	149	334	551	3.94	1,186	635
14,500 - 15,499---	2,671	174,520.9	65.3	86	14,971	3.69	552	57	156	34	144	351	579	3.86	1,271	692
15,500 - 16,499---	1,638	108,799.9	66.4	87	15,952	3.67	585	59	157	35	156	371	604	3.78	1,357	753
16,500 - 17,499---	799	50,218.5	62.9	87	16,930	3.66	619	61	159	38	147	388	628	3.71	1,441	814
17,500 - 18,499---	229	14,595.1	63.7	87	17,885	3.65	652	64	154	41	138	408	655	3.67	1,504	848
18,500 - 19,499---	81	5,099.7	63.0	88	18,781	3.60	677	73	155	40	148	455	707	3.77	1,580	873
19,500 - 20,499---	17	885.6	52.1	88	19,831	3.61	716	76	136	50	124	512	772	3.89	1,627	855
20,500 - 21,499---	3	62.6	20.9	89	21,113	3.38	713	76	113	49	83	524	701	3.33	1,689	988
21,500 - 22,499---	3	92.5	30.8	92	21,718	3.52	764	69	87	59	126	450	736	3.39	1,739	1,003
23,500 - 24,499---	1	16.0	16.0	95	23,756	3.63	863	80	8	78	---	585	823	3.46	2,030	1,207
MORE THAN 24,499--	1	12.7	12.7	84	24,566	3.07	755	77	183	20	197	526	713	2.90	2,220	1,507
AVG.--COMP. REC.--	17,309	1,120,066.9	64.7	85	13,427	3.68	494	53	145	34	159	325	539	4.06	1,139	600
JERSEY																
LESS THAN 6,500---	31	1,731.8	55.9	80	5,822	4.86	283	32	77	27	256	202	332	5.71	558	226
6,500 - 7,499---	74	5,219.5	70.5	81	7,055	4.89	345	34	86	22	237	224	359	5.09	694	336
7,500 - 8,499---	140	9,361.0	66.9	84	8,033	4.94	397	43	88	22	219	270	394	4.91	797	403
8,500 - 9,499---	220	13,728.5	62.4	85	9,010	4.96	447	41	100	25	191	257	408	4.53	877	469
9,500 - 10,499---	197	13,891.8	70.5	86	9,998	4.95	495	45	103	26	199	285	450	4.50	981	531
10,500 - 11,499---	113	7,251.3	64.2	87	10,938	4.99	546	47	112	25	183	311	475	4.35	1,070	594
11,500 - 12,499---	26	2,307.2	88.7	88	11,934	4.92	587	48	120	25	217	323	503	4.22	1,196	693
12,500 - 13,499---	9	738.5	82.1	85	12,656	4.90	620	50	110	24	227	316	508	4.02	1,305	797
13,500 - 14,499---	2	127.8	63.9	90	14,305	5.09	728	56	--	25	329	391	550	3.86	1,467	917
14,500 - 15,499---	1	133.0	133.0	87	14,519	4.66	676	47	86	29	175	258	448	3.09	1,411	963
AVG.--COMP. REC.--	813	54,490.4	67.0	85	9,261	4.95	458	43	100	24	206	273	424	4.63	910	486

TABLE 5.--U.S. COW-YEAR AVERAGES BY BREED AND MILK LEVEL FOR OFFICIAL HERDS, MAY 1, 1974 - APRIL 30, 1975--CONTINUED

MILK LEVEL	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FORAGE	DRY FORAGE	PASTURE DAYS	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	VALUE OF PROD.	INCOME OVER FEED COST
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
						BROWN SWISS										
LESS THAN 6,500---	4	132.1	33.0	82	5,587	3.99	223	32	93	32	118	227	351	6.34	475	124
6,500 - 7,499---	8	397.4	49.7	78	7,053	3.91	276	28	99	37	163	150	351	4.96	568	217
7,500 - 8,499---	13	592.2	45.6	83	8,041	4.05	326	44	144	40	155	266	456	5.69	685	229
8,500 - 9,499---	37	1,626.2	44.0	81	9,087	4.07	370	40	103	38	148	216	418	4.60	708	289
9,500 - 10,499---	49	2,381.7	48.6	84	10,141	4.08	414	50	121	31	173	270	463	4.57	870	407
10,500 - 11,499---	70	3,082.1	44.0	85	11,054	4.11	454	49	114	37	162	279	483	4.37	925	442
11,500 - 12,499---	64	2,718.3	42.6	86	12,065	4.06	490	48	137	35	139	282	490	4.06	991	501
12,500 - 13,499---	53	2,968.0	57.4	86	13,065	4.05	529	55	122	41	150	321	547	4.19	1,158	611
13,500 - 14,499---	23	824.3	35.9	88	13,916	4.07	567	56	133	36	155	356	594	4.27	1,178	584
14,500 - 15,499---	7	386.2	55.2	88	14,904	4.08	608	65	131	32	101	381	587	3.95	1,290	703
15,500 - 16,499---	1	5.5	5.5	90	16,166	4.02	650	78	145	14	---	520	624	3.86	1,446	822
16,500 - 17,499---	1	60.9	60.9	88	16,555	3.71	615	57	--	76	167	401	694	4.19	1,285	591
AVG.--COMP. REC.--	330	15,174.9	46.0	85	11,283	4.06	459	49	121	37	154	282	490	4.40	952	462
						MILKING SHORTHORN										
LESS THAN 6,500---	3	56.3	18.8	84	5,021	3.72	187	21	88	47	148	140	330	6.50	393	63
6,500 - 7,499---	5	164.2	32.8	76	7,136	3.62	258	24	44	47	175	142	337	4.76	565	228
7,500 - 8,499---	12	362.6	30.2	79	8,111	3.72	302	29	87	35	183	162	363	4.46	583	221
8,500 - 9,499---	6	193.9	32.3	84	9,177	3.84	352	35	47	43	194	189	435	4.72	680	246
9,500 - 10,499---	11	411.7	37.4	81	9,895	3.67	363	39	88	33	147	218	464	4.70	747	283
10,500 - 11,499---	13	388.3	29.9	83	11,075	3.70	410	42	91	35	151	229	455	4.11	812	357
11,500 - 12,499---	5	128.7	25.7	88	12,009	3.67	441	45	99	49	180	266	467	3.89	892	425
12,500 - 13,499---	2	91.6	45.8	83	12,666	3.62	459	39	39	55	207	254	475	3.74	1,071	597
AVG.--COMP. REC.--	57	1,797.3	31.5	82	9,601	3.70	355	36	80	39	168	202	423	4.48	720	297
						MIXED AND OTHER										
LESS THAN 6,500---	11	671.2	61.0	81	5,960	4.24	253	26	62	28	222	164	313	5.27	526	213
6,500 - 7,499---	28	1,808.2	64.6	80	7,005	3.98	279	34	100	28	226	205	384	5.50	649	264
7,500 - 8,499---	39	2,457.1	63.0	81	8,059	4.09	330	39	128	34	195	233	399	4.95	735	336
8,500 - 9,499---	72	4,727.3	65.7	83	8,987	4.23	380	40	108	29	202	245	409	4.55	829	420
9,500 - 10,499---	110	5,973.3	54.3	83	10,020	4.08	409	44	100	32	188	277	454	4.53	889	435
10,500 - 11,499---	137	7,492.4	54.7	84	10,970	3.94	432	45	127	32	161	283	477	4.35	955	478
11,500 - 12,499---	119	7,719.9	64.9	85	12,000	3.92	470	51	138	32	172	318	509	4.24	1,067	558
12,500 - 13,499---	129	7,296.6	56.6	85	13,007	3.86	502	51	140	32	138	320	531	4.08	1,126	595
13,500 - 14,499---	96	5,863.8	61.1	86	13,989	3.85	538	56	156	36	129	336	550	3.93	1,225	674
14,500 - 15,499---	47	2,798.5	59.5	86	14,983	3.84	575	56	154	31	117	355	576	3.84	1,274	698
15,500 - 16,499---	16	784.9	49.1	86	15,773	3.80	600	56	137	38	120	375	598	3.79	1,328	730
16,500 - 17,499---	4	257.0	64.3	86	17,019	3.85	655	55	183	37	108	335	549	3.23	1,434	885
17,500 - 18,499---	1	35.9	35.9	87	17,518	3.57	625	71	62	67	161	500	784	4.48	1,520	736
AVG.--COMP. REC.--	809	47,886.1	59.2	84	11,483	3.94	453	48	130	32	166	295	488	4.33	1,010	522

1/ HERDS AND COW-YEARS ARE TOTALS. DASHES INDICATE THAT FEED WAS NOT INCLUDED IN RATION.

TABLE 6.--U.S. COW-YEAR AVERAGES BY BREED AND HERD SIZE FOR OFFICIAL HERDS, MAY 1, 1974 - APRIL 30, 1975 1/

HERD SIZE	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FORAGE	DRY FORAGE	PASTURE DAYS	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	VALUE OF PROD.	INCOME OVER FEED COST
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
						AYRSHIRE										
5.0 - 25---	68	1,129.4	16.6	83	10,762	3.96	426	43	84	43	157	271	454	4.26	883	429
25.1 - 50---	131	4,888.8	37.3	83	10,822	3.95	427	43	93	41	155	265	450	4.19	906	456
50.1 - 75---	67	3,999.5	59.7	83	11,061	3.94	436	43	111	30	168	279	457	4.17	961	504
75.1 - 100---	22	1,832.1	83.3	83	11,219	3.97	445	46	110	35	168	291	478	4.28	968	490
100.1 - 150---	14	1,622.2	115.9	84	12,028	4.03	485	47	153	24	132	282	456	3.80	1,060	603
150.1 - 200---	1	167.7	167.7	83	11,151	4.01	447	46	150	12	---	291	456	4.09	1,124	668
200.1 - 300---	1	211.7	211.7	77	10,253	3.86	396	46	190	19	119	325	481	4.69	862	381
						GUERNSEY										
5.0 - 25---	109	1,854.9	17.0	85	9,539	4.65	444	39	84	42	158	234	416	4.42	838	422
25.1 - 50---	390	14,736.0	37.8	86	9,907	4.68	464	42	92	35	155	248	431	4.41	881	450
50.1 - 75---	193	11,738.9	60.8	86	9,919	4.70	466	42	114	28	160	257	436	4.42	918	482
75.1 - 100---	67	5,746.0	85.8	86	10,235	4.67	478	45	123	25	171	279	468	4.60	969	501
100.1 - 150---	38	4,544.8	119.6	86	10,020	4.65	466	46	108	22	216	289	485	4.96	969	484
150.1 - 200---	14	2,332.7	166.6	84	9,419	4.60	433	46	130	25	235	297	475	5.06	949	474
200.1 - 300---	5	1,173.7	234.7	84	9,762	4.52	441	50	107	20	249	330	474	4.85	1,063	589
300.1 - 400---	2	760.2	380.1	85	10,542	4.53	478	54	190	35	297	350	556	5.26	1,135	579
400.1 - 500---	1	450.5	450.5	84	10,766	4.58	493	38	187	12	180	290	470	4.37	1,252	782
750.1 - 1,000---	1	821.3	821.3	76	7,672	4.34	333	72	29	4	365	386	444	5.79	898	454
						HOLSTEIN										
5.0 - 25---	863	17,291.8	20.0	85	13,283	3.71	493	52	90	50	143	304	512	3.89	1,028	516
25.1 - 50---	7,091	271,887.0	38.3	85	13,410	3.71	497	51	117	42	141	303	516	3.88	1,078	562
50.1 - 75---	4,905	298,441.4	60.8	85	13,471	3.68	496	51	141	34	149	314	529	3.97	1,124	595
75.1 - 100---	2,118	182,334.9	86.1	85	13,547	3.67	497	52	156	30	170	326	539	4.02	1,163	623
100.1 - 150---	1,586	189,795.2	119.7	85	13,427	3.66	492	53	167	28	170	339	554	4.16	1,182	629
150.1 - 200---	437	74,387.1	170.2	85	13,472	3.65	492	57	170	31	194	361	579	4.35	1,206	626
200.1 - 300---	231	54,292.9	235.0	85	13,112	3.65	479	57	165	27	207	363	575	4.45	1,206	631
300.1 - 400---	57	19,133.3	335.7	85	12,964	3.64	472	59	183	25	170	375	593	4.62	1,190	597
400.1 - 500---	9	3,900.6	433.4	84	12,582	3.62	455	54	169	23	169	406	497	4.13	1,173	676
500.1 - 750---	9	5,489.2	609.9	84	13,351	3.53	471	66	154	22	249	387	624	4.72	1,203	579
750.1 - 1,000---	2	1,655.8	827.9	87	12,428	3.60	448	52	149	27	59	357	547	4.38	1,108	561
1,250.1 - 1,500---	1	1,457.7	1,457.7	86	13,874	3.50	486	78	169	39	90	474	780	5.62	1,243	463
						JERSEY										
5.0 - 25---	118	1,996.3	16.9	86	9,038	4.95	447	42	94	32	171	265	422	4.71	847	425
25.1 - 50---	267	10,015.8	37.5	85	9,144	4.94	452	41	72	32	180	255	409	4.52	856	447
50.1 - 75---	191	11,578.9	60.6	86	9,303	4.92	458	40	93	27	190	257	410	4.43	879	469
75.1 - 100---	103	8,960.6	87.0	85	9,068	4.91	445	40	98	26	198	256	418	4.67	877	459
100.1 - 150---	83	9,949.9	119.9	85	9,394	4.98	468	43	113	19	220	276	425	4.57	940	514
150.1 - 200---	27	4,597.5	170.3	85	9,100	5.05	460	43	119	17	206	289	422	4.72	951	529
200.1 - 300---	19	4,682.5	246.4	84	9,639	4.98	480	50	110	22	278	305	462	4.86	987	525
300.1 - 400---	5	1,644.9	329.0	82	10,263	5.01	514	46	113	16	267	326	496	5.00	1,124	627
400.1 - 500---	1	498.9	498.9	89	9,229	4.72	436	50	196	5	29	335	493	5.34	1,065	572
500.1 - 750---	1	677.6	677.6	84	7,946	4.58	364	81	--	2	365	456	481	6.05	958	477
						BROWN SWISS										
5.0 - 25---	63	1,108.5	17.6	85	11,017	4.05	446	47	105	46	137	279	477	4.45	882	405
25.1 - 50---	169	6,164.2	36.5	85	11,187	4.11	459	45	112	44	134	260	472	4.27	902	430
50.1 - 75---	64	3,873.8	60.5	84	11,019	4.09	451	45	130	35	141	268	480	4.42	917	437
75.1 - 100---	16	1,378.7	86.2	86	12,000	4.08	489	49	159	20	115	288	503	4.24	1,010	506
100.1 - 150---	13	1,619.8	124.6	84	11,757	3.96	465	55	94	43	195	319	532	4.62	1,054	522
150.1 - 200---	3	556.4	185.5	85	11,045	3.95	436	79	144	11	293	411	528	4.80	1,196	668
200.1 - 300---	2	473.5	236.8	87	11,889	4.03	479	78	129	29	365	404	608	5.12	1,265	657
						MILKING SHORTHORN										
5.0 - 25---	25	437.9	17.5	81	9,230	3.71	342	34	68	49	153	189	393	4.35	661	268
25.1 - 50---	24	873.2	36.4	81	9,758	3.65	356	36	69	41	165	197	412	4.33	734	322
50.1 - 75---	7	410.3	58.6	82	9,705	3.78	367	38	121	25	176	226	465	4.78	750	285
75.1 - 100---	1	75.9	75.9	85	9,360	3.90	365	31	46	30	251	207	510	5.45	747	237
						MIXED AND OTHER										
5.0 - 25---	53	1,034.7	19.5	84	11,447	4.00	458	46	95	39	153	286	471	4.19	952	482
25.1 - 50---	361	14,010.7	38.8	84	11,448	3.96	453	46	113	38	143	287	481	4.27	975	493
50.1 - 75---	223	13,485.7	60.5	84	11,838	3.96	469	46	133	31	148	286	486	4.17	1,030	544
75.1 - 100---	90	7,776.4	86.4	84	11,537	3.93	453	47	129	27	177	297	481	4.22	1,020	539
100.1 - 150---	62	7,395.7	119.3	85	11,349	3.96	449	50	147	29	246	317	513	4.54	1,050	537
150.1 - 200---	12	2,044.5	170.4	82	10,045	3.75	377	51	125	26	235	317	484	4.93	972	488
200.1 - 300---	6	1,369.9	228.3	86	11,365	4.00	455	64	208	11	121	375	556	5.12	1,063	507
300.1 - 400---	1	350.9	350.9	82	13,717	3.58	491	50	116	75	---	71	334	2.43	1,132	798
400.1 - 500---	1	417.6	417.6	81	8,190	3.75	307	46	214	--	56	290	480	5.86	740	260

1/ HERDS AND COW-YEARS ARE TOTALS. DASHES INDICATE THAT FEED WAS NOT INCLUDED IN RATION.

TABLE 7.--STATE AND U.S. COW-YEAR AVERAGES FOR ALL OWNER-SAMPLER RECORDS, MAY 1, 1974 - APRIL 30, 1975 1/

STATE	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	COW-YEAR AVERAGE PRODUCTION MILK	FAT	FAT
	NO.	NO.	NO.	PCT.	LB	PCT.	LB
ALABAMA----------	9	1,253.1	139.2	86	12,336	3.62	447
ALASKA-----------	5	210.1	42.0	88	14,372	3.40	489
ARKANSAS---------	37	3,727.7	100.7	82	12,460	3.59	447
CALIFORNIA-------	32	2,959.0	92.5	84	13,393	3.99	535
COLORADO---------	10	919.4	91.9	86	13,048	3.53	461
CONNECTICUT------	19	956.5	50.3	84	13,225	3.89	515
DELAWARE---------	1	45.8	45.8	79	14,720	3.63	535
FLORIDA----------	1	204.4	204.4	90	13,636	3.63	495
GEORGIA----------	1	72.4	72.4	85	15,012	3.80	570
HAWAII-----------	2	1,225.4	612.7	74	11,985	3.18	381
IDAHO------------	32	1,793.1	56.0	87	12,602	3.85	485
ILLINOIS---------	207	8,701.4	42.0	85	12,128	3.80	461
INDIANA----------	93	3,998.1	43.0	86	12,901	3.77	487
IOWA-------------	644	24,607.2	38.2	83	11,749	3.77	443
KANSAS-----------	122	6,172.6	50.6	83	11,866	3.65	433
KENTUCKY---------	16	1,198.3	74.9	84	13,030	3.54	461
LOUISIANA--------	1	73.6	73.6	86	13,902	3.10	431
MAINE------------	34	1,386.5	40.8	86	12,105	3.82	463
MARYLAND---------	47	2,358.3	50.2	86	12,909	3.85	497
MASSACHUSETTS----	22	730.0	33.2	84	11,860	3.70	439
MICHIGAN---------	597	29,370.0	49.2	86	13,157	3.79	499
MINNESOTA--------	1,856	67,184.4	36.2	85	12,512	3.77	472
MISSISSIPPI------	3	243.5	81.2	87	10,567	3.55	375
MISSOURI---------	145	8,346.7	57.6	83	11,595	3.67	425
MONTANA----------	10	1,246.3	124.6	79	12,242	3.32	407
NEBRASKA---------	54	2,833.5	52.5	84	12,194	3.58	437
NEVADA-----------	3	1,341.6	447.2	84	14,007	3.29	461
NEW HAMPSHIRE----	27	1,023.6	37.9	84	11,180	3.81	426
NEW JERSEY-------	5	179.7	35.9	85	12,724	3.73	475
NEW MEXICO-------	2	554.2	277.1	82	12,907	3.59	463
NEW YORK---------	1,084	49,704.3	45.9	85	12,714	3.62	460
NORTH CAROLINA---	18	1,121.2	62.3	87	14,181	3.65	517
NORTH DAKOTA-----	28	1,431.4	51.1	84	12,408	3.70	459
OHIO-------------	473	20,894.4	44.2	86	13,170	3.74	492
OKLAHOMA---------	26	1,408.3	54.2	82	11,760	3.49	411
OREGON-----------	29	1,099.3	37.9	85	11,897	3.95	470
PENNSYLVANIA-----	704	27,404.3	38.9	83	12,325	3.85	475
SOUTH CAROLINA---	2	162.0	81.0	88	13,222	3.49	462
SOUTH DAKOTA-----	252	11,239.4	44.6	82	12,031	3.62	435
TENNESSEE--------	4	186.2	46.6	82	10,311	3.66	377
TEXAS------------	32	3,655.0	114.2	83	11,776	3.54	417
UTAH-------------	13	598.1	46.0	88	13,918	3.70	515
VERMONT----------	144	6,746.7	46.9	84	11,417	3.81	435
VIRGINIA---------	33	2,755.0	83.5	84	12,112	3.67	444
WASHINGTON-------	43	2,536.9	59.0	86	13,533	3.84	519
WEST VIRGINIA----	7	259.9	37.1	83	11,438	3.69	422
WISCONSIN--------	7,774	304,760.7	39.2	85	12,509	3.86	483
WYOMING----------	1	30.6	30.6	84	13,699	3.39	465
UNITED STATES----	14,704	610,910.1	41.5	85	12,503	3.80	475

1/ INCLUDES ALL PRODUCTION DATA REPORTED.

TABLE 8.--U.S. COW-YEAR AVERAGES FOR ALL OWNER-SAMPLER HERD RECORDS, BY BREED AND MILK LEVEL, MAY 1, 1974 - APRIL 30, 1975

MILK LEVEL RANGE	HERDS NO.	COW-YEARS NO.	COWS PER HERD NO.	DAYS IN MILK PCT.	MILK LB	FAT PCT.	FAT LB
AYRSHIRE							
LESS THAN 6,500---	1	14.3	14.3	75	5,336	3.75	200
6,500 - 7,499---	1	9.5	9.5	79	7,304	3.93	287
7,500 - 8,499---	3	62.1	20.7	81	8,051	3.92	316
8,500 - 9,499---	11	318.0	28.9	84	9,135	3.97	363
9,500 - 10,499---	10	324.4	32.4	84	9,962	3.96	394
10,500 - 11,499---	20	500.2	25.0	83	10,945	3.88	425
11,500 - 12,499---	7	167.6	23.9	85	11,850	4.00	474
12,500 - 13,499---	4	167.3	41.8	87	12,844	3.96	509
13,500 - 14,499---	1	40.4	40.4	86	13,684	4.01	549
15,500 - 16,499---	1	30.3	30.3	86	15,702	3.52	553
AVG.----ALL REC.--	59	1,634.1	27.7	84	10,661	3.93	419
GUERNSEY							
LESS THAN 6,500---	8	252.3	31.5	83	5,910	4.74	280
6,500 - 7,499---	34	955.0	28.1	83	7,059	4.67	330
7,500 - 8,499---	88	2,862.5	32.5	84	8,068	4.65	375
8,500 - 9,499---	150	4,938.9	32.9	85	8,981	4.60	413
9,500 - 10,499---	140	4,580.6	32.7	86	10,016	4.62	463
10,500 - 11,499---	84	3,022.0	36.0	87	10,927	4.55	497
11,500 - 12,499---	39	1,378.7	35.4	87	11,832	4.27	505
12,500 - 13,499---	16	602.7	37.7	85	12,905	4.14	534
13,500 - 14,499---	5	188.7	37.7	86	13,943	4.13	576
14,500 - 15,499---	2	70.2	35.1	89	14,912	3.92	584
AVG.----ALL REC.--	566	18,851.6	33.3	85	9,673	4.55	440
HOLSTEIN							
LESS THAN 6,500---	28	857.1	30.6	80	6,011	3.74	225
6,500 - 7,499---	74	2,521.7	34.1	79	7,124	3.68	262
7,500 - 8,499---	247	8,869.9	35.9	80	8,087	3.73	302
8,500 - 9,499---	498	18,354.4	36.9	82	9,097	3.74	340
9,500 - 10,499---	1,010	40,596.7	40.2	82	10,059	3.74	376
10,500 - 11,499---	1,765	71,953.4	40.8	83	11,036	3.74	413
11,500 - 12,499---	2,465	104,777.3	42.5	84	12,023	3.77	453
12,500 - 13,499---	2,755	117,747.5	42.7	85	12,997	3.77	490
13,500 - 14,499---	2,236	97,574.0	43.6	86	13,980	3.76	526
14,500 - 15,499---	1,362	58,707.4	43.1	86	14,954	3.77	564
15,500 - 16,499---	607	26,337.6	43.4	86	15,912	3.76	598
16,500 - 17,499---	204	8,965.3	43.9	87	16,890	3.74	631
17,500 - 18,499---	52	2,174.2	41.8	87	17,932	3.76	674
18,500 - 19,499---	10	285.0	28.5	86	18,986	3.75	712
19,500 - 20,499---	3	94.7	31.6	88	19,692	3.76	740
20,500 - 21,499---	1	30.9	30.9	85	20,550	4.23	869
AVG.----ALL REC.--	13,317	559,847.1	42.0	85	12,707	3.76	478
JERSEY							
LESS THAN 6,500---	18	688.7	38.3	83	5,946	4.79	285
6,500 - 7,499---	27	734.5	27.2	83	7,087	4.91	348
7,500 - 8,499---	74	2,395.3	32.4	85	8,057	5.00	403
8,500 - 9,499---	72	2,776.4	38.6	86	9,025	4.88	440
9,500 - 10,499---	39	1,967.8	50.5	86	9,990	4.98	498
10,500 - 11,499---	24	918.4	38.3	87	10,916	4.71	514
11,500 - 12,499---	4	159.0	39.8	87	11,917	4.66	555
12,500 - 13,499---	2	44.0	22.0	86	12,699	4.18	531
AVG.----ALL REC.--	260	9,684.1	37.2	85	8,859	4.90	434
BROWN SWISS							
LESS THAN 6,500---	1	25.4	25.4	78	6,254	4.14	259
6,500 - 7,499---	3	123.5	41.2	79	6,964	4.06	283
7,500 - 8,499---	7	177.8	25.4	79	8,242	4.08	336
8,500 - 9,499---	20	571.7	28.6	82	9,055	4.03	365
9,500 - 10,499---	25	746.5	29.9	83	10,053	4.03	405
10,500 - 11,499---	26	856.9	33.0	86	10,969	4.05	444
11,500 - 12,499---	19	621.2	32.7	86	12,022	4.05	487
12,500 - 13,499---	13	442.7	34.1	86	12,956	3.98	516
13,500 - 14,499---	10	309.3	30.9	88	14,076	3.91	551
14,500 - 15,499---	3	106.4	35.5	87	14,732	3.94	581
15,500 - 16,499---	1	22.0	22.0	86	16,210	4.00	649
AVG.----ALL REC.--	128	4,003.4	31.3	85	11,002	4.02	442

TABLE 8.--U.S. COW-YEAR AVERAGES FOR ALL OWNER-SAMPLER HERD RECORDS, BY BREED AND MILK LEVEL, MAY 1, 1974 - APRIL 30, 1975--CONTINUED

MILK LEVEL	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB
			MILKING SHORTHORN				
6,500 - 7,499---	2	28.9	14.5	84	6,961	3.63	253
7,500 - 8,499---	4	91.2	22.8	79	7,945	3.75	298
8,500 - 9,499---	3	71.0	23.7	83	9,156	3.80	348
9,500 - 10,499---	2	104.1	52.1	87	9,831	3.60	354
11,500 - 12,499---	2	35.1	17.6	89	11,713	3.59	421
AVG.----ALL REC.--	13	330.3	25.4	84	9,114	3.68	335
			MIXED AND OTHER				
LESS THAN 6,500---	11	249.8	22.7	80	6,009	4.29	258
6,500 - 7,499---	16	448.9	28.1	82	6,984	4.22	295
7,500 - 8,499---	23	815.9	35.5	82	8,119	4.41	358
8,500 - 9,499---	32	1,212.5	37.9	80	9,023	4.03	364
9,500 - 10,499---	42	1,887.1	44.9	84	9,936	3.95	392
10,500 - 11,499---	77	3,124.2	40.6	83	10,947	3.89	426
11,500 - 12,499---	56	2,308.9	41.2	84	11,999	3.92	470
12,500 - 13,499---	50	2,281.5	45.6	85	13,015	3.96	516
13,500 - 14,499---	32	3,365.0	105.2	83	13,695	3.67	502
14,500 - 15,499---	16	681.9	42.6	86	14,916	3.86	576
15,500 - 16,499---	4	133.9	33.5	91	16,196	3.78	612
16,500 - 17,499---	1	26.8	26.8	87	17,008	3.79	644
17,500 - 18,499---	1	23.1	23.1	84	18,006	3.74	674
AVG.----ALL REC.--	361	16,559.5	45.9	83	11,585	3.88	450

1/ INCLUDES ALL PRODUCTION DATA REPORTED. HERDS AND COW-YEARS ARE TOTALS.

TABLE 9.--U.S. COW-YEAR AVERAGES FOR ALL OWNER-SAMPLER HERD RECORDS, BY BREED AND HERD SIZE, MAY 1, 1974 - APRIL 30, 1975 1/

HERD SIZE RANGE	HERDS NO.	COW-YEARS NO.	COWS PER HERD NO.	DAYS IN MILK PCT.	MILK LB	FAT PCT.	FAT LB
			AYRSHIRE				
5.0 - 25---	22	319.2	14.5	82	9,707	3.90	379
25.1 - 50---	36	1,262.1	35.1	84	10,818	3.94	426
50.1 - 75---	1	52.8	52.8	86	12,658	3.94	499
			GUERNSEY				
5.0 - 25---	171	3,282.6	19.2	85	9,383	4.58	430
25.1 - 50---	337	11,793.7	35.0	85	9,704	4.54	441
50.1 - 75---	46	2,773.2	60.3	86	9,788	4.54	444
75.1 - 100---	11	892.9	81.2	84	10,027	4.48	449
100.1 - 150---	1	109.2	109.2	79	9,246	4.65	430
			HOLSTEIN				
5.0 - 25---	1,977	39,551.5	20.0	84	12,284	3.75	461
25.1 - 50---	8,291	302,738.2	36.5	85	12,655	3.77	477
50.1 - 75---	2,293	136,036.4	59.3	85	12,890	3.77	486
75.1 - 100---	518	44,089.3	85.1	85	12,721	3.76	478
100.1 - 150---	183	21,674.2	118.4	85	13,094	3.72	487
150.1 - 200---	28	4,745.0	169.5	83	12,247	3.78	463
200.1 - 300---	12	2,646.5	220.5	85	12,637	3.72	470
300.1 - 400---	5	1,771.7	354.3	86	12,783	3.56	455
400.1 - 500---	1	419.2	419.2	91	11,102	3.69	410
500.1 - 750---	7	4,194.6	599.2	82	12,693	3.55	451
750.1 - 1,000---	1	861.8	861.8	70	11,902	3.04	362
1,000.1 - 1,250---	1	1,118.7	1,118.7	84	14,401	3.14	452
			JERSEY				
5.0 - 25---	75	1,356.5	18.1	85	8,609	4.82	415
25.1 - 50---	137	4,826.4	35.2	85	8,741	4.83	422
50.1 - 75---	35	2,070.8	59.2	85	8,789	4.96	436
75.1 - 100---	9	823.4	91.5	87	9,639	5.02	484
100.1 - 150---	2	226.4	113.2	87	9,656	5.10	492
150.1 - 200---	1	161.8	161.8	87	8,668	5.30	459
200.1 - 300---	1	218.8	218.8	82	10,082	5.33	537
			BROWN SWISS				
5.0 - 25---	41	749.6	18.3	83	10,579	4.03	426
25.1 - 50---	77	2,661.5	34.6	85	11,169	4.02	449
50.1 - 75---	9	516.1	57.3	85	10,506	3.96	416
75.1 - 100---	1	76.2	76.2	85	12,705	4.28	544
			MILKING SHORTHORN				
5.0 - 25---	6	83.8	14.0	79	8,045	3.73	300
25.1 - 50---	6	171.7	28.6	85	9,374	3.71	348
50.1 - 75---	1	74.8	74.8	88	9,715	3.56	346
			MIXED AND OTHER				
5.0 - 25---	83	1,617.3	19.5	83	10,087	4.04	408
25.1 - 50---	195	6,930.0	35.5	84	11,418	3.93	449
50.1 - 75---	55	3,245.9	59.0	84	11,674	4.01	468
75.1 - 100---	16	1,342.0	83.9	82	11,098	3.92	435
100.1 - 150---	7	851.5	121.6	88	11,392	3.96	451
150.1 - 200---	2	319.1	159.6	83	12,109	3.69	447
200.1 - 300---	2	411.7	205.9	77	12,551	3.59	451
1,500.1 - 2,000---	1	1,842.0	1,842.0	82	13,509	3.50	473

1/ INCLUDES ALL PRODUCTION DATA REPORTED. HERDS AND COW-YEARS ARE TOTALS.

TABLE 10.--STATE AND U.S. COW-YEAR AVERAGES FOR COMPLETE RECORDS OF OWNER-SAMPLER HERDS, MAY 1, 1974 - APRIL 30, 1975 1/

STATE	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FORAGE	DRY FORAGE	PASTURE DAYS	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	VALUE OF PROD.	INCOME OVER FEED COST
	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
ALABAMA----------	6	965.2	160.9	85	11,777	3.63	428	66	116	7	242	439	593	5.07	1,142	548
ALASKA-----------	2	111.4	55.7	89	12,541	3.45	433	86	124	24	80	706	282	2.27	1,840	1,557
ARKANSAS---------	36	1,885.7	52.4	82	11,435	3.68	421	47	20	27	283	300	505	4.47	971	466
CALIFORNIA-------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
COLORADO---------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
CONNECTICUT------	19	956.5	50.3	84	13,225	3.89	515	51	170	24	83	325	533	4.06	1,233	700
DELAWARE---------	1	45.8	45.8	79	14,720	3.63	535	54	99	16	99	353	692	4.70	1,300	608
FLORIDA----------	1	204.4	204.4	90	13,636	3.63	495	62	178	14	365	373	571	4.19	1,505	934
GEORGIA----------	1	72.4	72.4	85	15,012	3.80	570	74	223	6	33	502	734	4.89	1,515	781
HAWAII-----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
IDAHO------------	22	1,042.8	47.4	87	12,622	3.92	495	47	109	72	44	269	549	4.41	955	406
ILLINOIS---------	159	6,625.3	42.5	86	11,772	3.78	445	46	110	35	86	256	445	3.78	895	450
INDIANA----------	90	3,899.8	43.3	85	12,947	3.78	489	47	147	26	74	293	512	4.01	1,077	564
IOWA-------------	644	24,607.2	38.2	83	11,749	3.77	443	47	89	40	70	251	454	3.92	830	376
KANSAS-----------	122	6,172.6	50.6	83	11,866	3.65	433	50	82	44	95	286	525	4.48	899	373
KENTUCKY---------	16	1,198.3	74.9	84	13,030	3.54	461	53	179	9	138	351	511	3.91	1,081	570
LOUISIANA--------	1	73.6	73.6	86	13,902	3.10	431	86	0	0	332	542	620	4.46	1,337	717
MAINE------------	34	1,386.5	40.8	86	12,105	3.82	463	48	94	37	130	308	481	4.00	1,109	627
MARYLAND---------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
MASSACHUSETTS----	22	730.0	33.2	84	11,860	3.70	439	47	119	38	98	305	489	4.20	1,080	591
MICHIGAN---------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
MINNESOTA--------	1,850	67,004.6	36.2	85	12,519	3.77	472	48	110	46	51	244	465	3.75	911	446
MISSISSIPPI------	3	243.5	81.2	87	10,567	3.55	375	37	150	3	340	252	458	4.34	917	459
MISSOURI---------	145	8,346.7	57.6	83	11,595	3.67	425	44	66	29	161	274	523	4.56	889	366
MONTANA----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
NEBRASKA---------	54	2,833.5	52.5	84	12,194	3.58	437	47	73	54	59	263	476	3.97	846	369
NEVADA-----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
NEW HAMPSHIRE----	27	1,023.6	37.9	84	11,180	3.81	426	43	130	35	78	288	479	4.34	1,000	521
NEW JERSEY-------	5	179.7	35.9	85	12,724	3.73	475	52	68	20	107	345	619	4.86	1,097	478
NEW MEXICO-------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
NEW YORK---------	1,065	48,758.2	45.8	85	12,705	3.62	460	43	100	30	102	284	472	3.74	1,057	586
NORTH CAROLINA---	17	1,103.2	64.9	87	14,154	3.65	516	56	183	11	139	373	566	4.01	1,399	833
NORTH DAKOTA-----	28	1,431.4	51.1	84	12,408	3.70	459	39	68	37	64	196	430	3.51	898	468
OHIO-------------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
OKLAHOMA---------	26	1,408.3	54.2	82	11,760	3.49	411	49	18	59	176	310	564	4.90	956	392
OREGON-----------	15	543.3	36.2	87	12,924	3.88	501	42	58	78	125	276	560	4.35	997	437
PENNSYLVANIA-----	700	27,237.8	38.9	83	12,339	3.86	476	49	126	35	120	299	505	4.13	1,059	554
SOUTH CAROLINA---	2	162.0	81.0	88	13,222	3.49	462	56	52	22	335	373	483	3.63	1,270	787
SOUTH DAKOTA-----	252	11,239.4	44.6	82	12,031	3.62	435	47	90	46	61	232	409	3.47	845	436
TENNESSEE--------	4	186.2	46.6	82	10,311	3.66	377	36	157	29	173	235	425	4.12	888	463
TEXAS------------	32	3,655.0	114.2	83	11,776	3.54	417	61	83	44	188	365	580	4.99	1,107	527
UTAH-------------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
VERMONT----------	143	6,691.2	46.8	84	11,391	3.81	434	41	55	26	100	275	466	4.16	1,011	545
VIRGINIA---------	32	2,739.6	85.6	84	12,142	3.66	445	45	193	11	113	309	518	4.31	1,110	592
WASHINGTON-------	28	1,704.4	60.9	87	13,242	3.87	513	42	88	46	155	284	573	4.38	1,071	498
WEST VIRGINIA----	7	259.9	37.1	83	11,438	3.69	422	43	86	22	148	249	393	3.36	994	601
WISCONSIN--------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
WYOMING----------	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
UNITED STATES--	5,611	236,729.0	42.2	84	12,316	3.72	458	47	103	38	90	271	478	3.88	968	490

1/ HERDS DESIGNATED AS "COMPLETE" WHEN ALL FEEDS, COSTS, AND VALUE OF PRODUCT ARE REPORTED.

2/ THESE STATES HAVE PRODUCTION RECORDS INCLUDED IN THE PLAN, BUT NONE OF THE HERD RECORDS ARE "COMPLETE".

TABLE 11.--U.S. COW-YEAR AVERAGES BY BREED AND MILK LEVEL FOR OWNER-SAMPLER HERDS, MAY 1, 1974 - APRIL 30, 1975 1/

MILK LEVEL	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FOR-AGE	DRY FOR-AGE	PAS-TURE DAYS	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	VALUE OF PROD.	INCOME OVER FEED COST
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
AYRSHIRE																
6,500 - 7,499---	1	9.5	9.5	79	7,304	3.93	287	30	59	60	190	213	415	5.68	603	188
7,500 - 8,499---	3	62.1	20.7	81	8,051	3.92	316	33	44	43	170	169	343	4.29	589	245
8,500 - 9,499---	7	239.5	34.2	83	9,172	3.95	362	33	157	52	112	220	420	4.60	765	345
9,500 - 10,499---	6	222.2	37.0	84	9,948	4.02	400	39	88	36	125	236	416	4.18	794	378
10,500 - 11,499---	16	430.6	26.9	83	10,969	3.91	429	41	90	51	143	244	427	3.89	888	461
11,500 - 12,499---	4	93.6	23.4	85	11,868	3.99	474	34	170	48	153	225	443	3.74	995	552
12,500 - 13,499---	3	127.2	42.4	87	12,786	3.92	501	41	118	38	153	264	395	3.08	1,040	645
13,500 - 14,499---	1	40.4	40.4	86	13,684	4.01	549	43	190	20	---	285	475	3.47	1,237	762
15,500 - 16,499---	1	30.3	30.3	86	15,702	3.52	553	44	16	11	---	308	512	3.26	1,264	752
AVG.--COMP. REC.--	42	1,255.4	29.9	84	10,726	3.93	422	38	107	44	139	238	421	3.99	875	454
GUERNSEY																
LESS THAN 6,500---	2	51.1	25.6	80	6,077	4.59	279	29	126	32	153	153	362	5.99	688	325
6,500 - 7,499---	8	251.2	31.4	80	7,147	4.79	342	35	86	36	167	191	355	4.97	612	257
7,500 - 8,499---	28	939.9	33.6	84	8,170	4.68	382	37	88	39	138	196	387	4.74	677	290
8,500 - 9,499---	35	1,128.8	32.3	84	8,980	4.58	411	35	61	43	146	201	365	4.06	744	380
9,500 - 10,499---	34	1,173.5	34.5	86	9,877	4.68	462	40	86	37	146	219	403	4.08	817	414
10,500 - 11,499---	18	657.4	36.5	87	11,066	4.58	507	47	94	42	132	267	446	4.03	941	495
11,500 - 12,499---	8	333.6	41.7	85	11,755	4.37	514	43	105	55	86	224	450	3.83	967	517
12,500 - 13,499---	1	33.0	33.0	82	13,430	3.82	513	55	195	46	---	264	585	4.36	994	409
13,500 - 14,499---	1	28.0	28.0	85	13,689	4.16	570	44	174	38	---	225	399	2.91	1,064	665
14,500 - 15,499---	1	23.1	23.1	87	14,727	3.88	571	58	57	61	130	289	499	3.39	1,043	544
AVG.--COMP. REC.--	136	4,619.6	34.0	85	9,498	4.60	437	39	85	41	143	216	399	4.25	791	392
HOLSTEIN																
LESS THAN 6,500---	12	360.1	30.0	81	6,071	3.72	226	19	91	45	139	110	288	4.76	469	181
6,500 - 7,499---	25	1,053.0	42.1	78	7,175	3.65	262	35	92	55	185	186	391	5.44	530	139
7,500 - 8,499---	90	3,552.4	39.5	80	8,088	3.68	298	32	101	40	145	179	363	4.49	619	256
8,500 - 9,499---	215	8,330.9	38.7	81	9,098	3.67	334	36	98	42	151	199	391	4.30	691	300
9,500 - 10,499---	417	18,383.3	44.1	82	10,067	3.70	372	39	116	42	152	224	425	4.22	782	357
10,500 - 11,499---	712	31,964.7	44.9	83	11,040	3.68	406	44	117	42	139	249	456	4.13	861	405
11,500 - 12,499---	922	40,563.2	44.0	84	12,025	3.69	444	45	118	41	136	262	468	3.89	935	467
12,500 - 13,499---	1,027	44,420.6	43.3	85	12,987	3.70	480	49	123	41	132	278	494	3.80	1,012	519
13,500 - 14,499---	798	33,327.6	41.8	85	13,972	3.68	514	52	121	42	144	302	515	3.69	1,093	578
14,500 - 15,499---	480	19,726.7	41.1	86	14,936	3.66	546	55	127	41	135	325	543	3.64	1,179	636
15,500 - 16,499---	216	9,088.3	42.1	86	15,914	3.67	584	59	132	42	145	349	567	3.56	1,273	706
16,500 - 17,499---	65	2,741.7	42.2	87	16,870	3.62	610	59	123	48	149	364	593	3.51	1,336	743
17,500 - 18,499---	20	905.1	45.3	86	17,908	3.71	664	69	166	51	108	396	640	3.57	1,262	623
18,500 - 19,499---	1	24.8	24.8	88	18,556	3.66	680	71	--	91	59	406	700	3.77	1,333	633
19,500 - 20,499---	1	48.0	48.0	87	19,608	3.66	718	66	117	63	---	318	545	2.78	1,361	816
20,500 - 21,499---	1	30.9	30.9	85	20,550	4.23	869	73	85	28	146	525	681	3.31	1,802	1,121
AVG.--COMP. REC.--	5,002	214,521.3	42.9	84	12,512	3.68	461	47	120	42	140	273	483	3.90	977	494
JERSEY																
LESS THAN 6,500---	14	524.8	37.5	82	5,968	4.84	289	28	50	42	160	162	314	5.26	529	215
6,500 - 7,499---	14	413.9	29.6	82	7,145	4.87	348	35	109	36	181	226	375	5.25	651	276
7,500 - 8,499---	33	1,139.8	34.5	84	8,075	4.92	397	32	76	36	166	201	354	4.39	739	384
8,500 - 9,499---	35	1,311.6	37.5	85	9,017	4.77	430	37	78	33	181	219	372	4.13	799	427
9,500 - 10,499---	19	907.8	47.8	86	10,044	4.95	497	42	71	30	162	258	407	4.05	930	523
10,500 - 11,499---	10	401.3	40.1	87	10,764	4.76	512	45	66	50	211	287	462	4.30	978	516
11,500 - 12,499---	3	129.5	43.2	86	11,981	4.85	581	47	126	15	181	308	460	3.84	1,147	687
12,500 - 13,499---	1	24.1	24.1	86	12,651	4.23	535	47	75	27	120	351	462	3.65	1,181	719
AVG.--COMP. REC.--	129	4,852.8	37.6	84	8,740	4.85	424	36	76	35	173	225	379	4.40	793	415

TABLE 11.--U.S. COW-YEAR AVERAGES BY BREED AND MILK LEVEL FOR OWNER-SAMPLER HERDS, MAY 1, 1974 - APRIL 30, 1975--CONTINUED

MILK LEVEL	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FOR-AGE	DRY FOR-AGE	PAS-TURE DAYS	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	VALUE OF PROD.	INCOME OVER FEED COST
RANGE	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
BROWN SWISS																
LESS THAN 6,500---	1	25.4	25.4	78	6,254	4.14	259	31	114	27	154	165	326	5.21	459	133
6,500 - 7,499---	1	67.1	67.1	81	6,886	4.15	286	35	256	18	---	206	436	6.33	614	178
7,500 - 8,499---	2	53.5	26.8	73	8,037	3.88	312	31	32	31	149	169	444	5.52	528	85
8,500 - 9,499---	6	164.6	27.4	81	8,893	3.96	352	37	87	44	135	170	351	3.96	639	288
9,500 - 10,499---	6	173.7	29.0	82	10,040·	4.12	414	43	80	47	110	235	422	4.19	750	328
10,500 - 11,499---	10	326.1	32.6	85	11,017	4.07	448	47	81	49	93	249	435	3.96	819	384
11,500 - 12,499---	7	224.5	32.1	83	12,185	3.91	477	49	105	46	98	228	407	3.34	906	499
12,500 - 13,499---	3	97.5	32.5	86	12,964	3.90	505	61	91	47	115	359	581	4.48	1,010	429
13,500 - 14,499---	4	120.4	30.1	87	14,039	3.94	553	54	122	36	120	292	469	3.33	1,046	577
14,500 - 15,499---	1	43.4	43.4	85	14,914	3.83	571	71	100	49	178	467	677	4.54	1,285	608
15,500 - 16,499---	1	22.0	22.0	86	16,210	4.00	649	52	99	51	71	236	556	3.43	1,178	622
AVG.--COMP. REC.--	42	1,318.2	31.4	83	11,034	3.99	440	46	99	44	114	246	440	4.08	829	389
MILKING SHORTHORN																
6,500 - 7,499---	1	13.9	13.9	84	6,604	3.71	245	23	--	42	179	91	205	3.10	438	233
7,500 - 8,499---	2	48.1	24.1	73	8,183	3.72	304	28	88	50	124	122	261	3.19	554	293
9,500 - 10,499---	1	74.8	74.8	88	9,715	3.56	346	29	110	37	87	163	348	3.58	708	360
11,500 - 12,499---	1	5.9	5.9	87	11,570	3.29	381	53	--	95	---	322	446	3.85	817	371
AVG.--COMP. REC.--	5	142.7	28.5	83	8,972	3.60	323	29	104	44	109	149	309	3.41	634	326
MIXED AND OTHER																
LESS THAN 6,500---	7	164.1	23.4	81	6,042	4.22	255	34	97	46	142	142	322	5.33	481	159
6,500 - 7,499---	12	319.4	26.6	82	6,900	4.16	287	33	41	38	161	190	331	4.80	545	214
7,500 - 8,499---	12	368.6	30.7	81	8,174	4.37	357	33	72	48	197	196	358	4.37	686	328
8,500 - 9,499---	28	1,040.7	37.2	80	9,043	4.09	370	37	111	36	126	227	418	4.63	755	336
9,500 - 10,499---	28	1,250.8	44.7	83	9,934	3.95	392	40	107	40	156	241	424	4.28	848	420
10,500 - 11,499---	52	2,113.8	40.7	84	10,950	3.94	431	41	121	33	156	258	453	4.14	918	465
11,500 - 12,499---	44	1,742.6	39.6	84	12,031	3.91	470	50	133	38	145	295	502	4.17	1,001	500
12,500 - 13,499---	39	1,742.8	44.7	85	13,031	3.98	518	56	131	35	134	326	530	4.07	1,116	586
13,500 - 14,499---	20	771.6	38.6	84	13,915	3.84	535	55	144	33	108	337	555	3.99	1,191	636
14,500 - 15,499---	10	418.6	41.9	85	14,924	3.81	569	51	140	37	111	290	488	3.27	1,254	765
15,500 - 16,499---	1	36.1	36.1	89	16,372	3.77	618	54	81	32	192	343	542	3.31	1,518	976
16,500 - 17,499---	1	26.8	26.8	87	17,008	3.79	644	60	100	33	146	398	636	3.74	1,439	803
17,500 - 18,499---	1	23.1	23.1	84	18,006	3.74	674	66	89	51	158	457	655	3.64	1,500	845
AVG.--COMP. REC.--	255	10,019.0	39.3	83	11,310	3.95	447	46	120	37	144	273	469	4.20	953	484

1/ HERDS AND COW-YEARS ARE TOTALS. DASHES INDICATE THAT FEED WAS NOT INCLUDED IN RATION.

TABLE 12.--U.S. COW-YEAR AVERAGES BY BREED AND HERD SIZE FOR OWNER-SAMPLED HERDS, MAY 1, 1974 - APRIL 30, 1975 1/

HERD SIZE RANGE	HERDS NO.	COW-YEARS NO.	COWS PER HERD NO.	DAYS IN MILK PCT.	MILK LB	FAT PCT.	FAT LB	CONC. CWT	SUCC. FORAGE CWT	DRY FORAGE CWT	PASTURE DAYS NO.	COST OF CONC. $	FEED COST $	FEED COST/ CWT. MILK $	VALUE OF PROD. $	INCOME OVER FEED COST $
AYRSHIRE																
5.0 - 25---	11	143.9	13.1	82	9,901	3.96	392	39	85	52	170	229	418	4.28	760	342
25.1 - 50---	30	1,058.7	35.3	84	10,742	3.93	422	38	110	43	133	236	421	3.98	885	464
50.1 - 75---	1	52.8	52.8	86	12,658	3.94	499	49	118	41	---	302	427	3.37	976	549
GUERNSEY																
5.0 - 25---	51	975.9	19.1	85	9,436	4.62	436	38	64	44	135	199	378	4.04	753	375
25.1 - 50---	63	2,191.7	34.8	84	9,437	4.57	431	40	81	41	148	220	396	4.24	777	381
50.1 - 75---	17	1,030.2	60.6	85	9,663	4.56	441	39	101	39	134	225	420	4.41	847	427
75.1 - 100---	4	312.6	78.2	85	9,658	4.85	468	40	130	34	218	214	409	4.31	826	417
100.1 - 150---	1	109.2	109.2	79	9,246	4.65	430	30	33	51	133	196	412	4.46	780	368
HOLSTEIN																
5.0 - 25---	838	16,711.1	20.0	84	12,448	3.70	461	49	82	51	138	268	470	3.83	918	448
25.1 - 50---	2,915	105,641.2	36.2	84	12,550	3.69	463	47	108	45	137	267	476	3.82	965	489
50.1 - 75---	896	53,604.7	59.8	84	12,543	3.68	461	46	133	38	142	275	487	3.92	993	506
75.1 - 100---	229	19,447.2	84.9	84	12,397	3.65	452	47	139	34	149	280	483	3.95	993	510
100.1 - 150---	90	10,579.2	117.5	84	12,763	3.67	469	49	153	30	125	295	506	4.01	1,020	514
150.1 - 200---	18	3,045.2	169.2	83	11,879	3.70	440	48	146	33	286	278	463	3.89	1,007	543
200.1 - 300---	9	1,977.1	219.7	85	12,459	3.68	458	53	163	23	167	324	514	4.16	1,086	572
300.1 - 400---	2	715.3	357.7	86	11,819	3.60	425	74	131	5	228	494	618	5.26	1,147	529
400.1 - 500---	1	419.2	419.2	91	11,102	3.69	410	81	187	14	---	404	505	4.55	1,119	614
500.1 - 750---	4	2,381.1	595.3	83	11,682	3.54	413	41	184	36	12	245	662	5.66	994	333
JERSEY																
5.0 - 25---	27	450.8	16.7	82	8,393	4.63	389	34	54	48	147	217	373	4.51	751	378
25.1 - 50---	78	2,841.4	36.4	84	8,692	4.84	421	36	75	35	168	221	374	4.36	772	399
50.1 - 75---	19	1,117.3	58.8	84	8,652	4.92	426	38	83	36	199	233	388	4.58	819	431
75.1 - 100---	5	443.3	88.7	86	9,624	4.87	469	39	82	22	179	240	393	4.05	907	515
BROWN SWISS																
5.0 - 25---	15	278.1	18.5	83	11,059	4.05	448	45	69	53	125	216	408	3.75	819	411
25.1 - 50---	24	854.2	35.6	84	11,239	3.98	447	47	91	44	117	258	453	4.08	844	391
50.1 - 75---	3	185.9	62.0	82	10,054	3.97	399	44	166	28	28	233	432	4.60	778	346
MILKING SHORTHORN																
5.0 - 25---	3	39.4	13.1	77	7,963	3.63	289	27	--	61	164	137	255	3.14	531	276
25.1 - 50---	1	28.5	28.5	75	8,418	3.71	312	31	88	40	103	127	281	3.34	585	304
50.1 - 75---	1	74.8	74.8	88	9,715	3.56	346	29	110	37	87	163	348	3.58	708	360
MIXED AND OTHER																
5.0 - 25---	59	1,136.4	19.3	84	10,030	4.08	409	43	84	47	156	248	423	4.32	811	389
25.1 - 50---	140	4,949.7	35.4	83	11,482	3.91	449	46	109	39	146	280	477	4.19	965	489
50.1 - 75---	39	2,286.1	58.6	84	11,441	3.99	457	46	129	35	135	275	482	4.27	967	486
75.1 - 100---	11	905.5	82.3	81	11,204	3.97	445	49	167	23	113	270	462	4.16	962	500
100.1 - 150---	6	741.3	123.6	88	11,843	3.94	467	43	153	27	179	265	453	3.88	1,033	580

1/ HERDS AND COW-YEARS ARE TOTALS. DASHES INDICATE THAT FEED WAS NOT INCLUDED IN RATION.

TABLE 13.--SUMMARY OF OFFICIAL COW-YEAR AVERAGES FOR HERDS REPORTING COMPLETE DATA, 1939-75

								FEED FED								
TESTING YEARS	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FORAGE	DRY FORAGE	PASTURE DAYS	VALUE OF PROD.	COST OF CONC.	FEED COST	FEED COST/ CWT. MILK	INCOME OVER FEED COST
	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
1939-40	2/19,330	467,775	24.2	--	8,049	4.05	326	--	---	--	---	165	32	68	0.84	97
1940-41	2/20,590	500,340	24.3	--	8,182	4.06	332	--	---	--	---	176	34	70	.86	106
1941-42	2/17,341	430,057	24.8	--	8,271	4.06	336	--	---	--	---	206	42	82	.99	124
1942-43	2/12,006	306,142	25.5	--	8,219	4.06	334	--	---	--	---	245	53	99	1.20	146
1943-44	2/11,433	308,678	27.0	--	8,141	4.05	330	--	---	--	---	274	63	118	1.45	156
1944-45	2/11,204	304,748	27.2	--	8,434	4.02	339	--	---	--	---	302	68	128	1.49	174
1945-46	2/11,795	318,461	27.0	--	8,440	4.05	342	--	---	--	---	314	70	130	1.54	184
1946-47	3/15,566	418,738	26.9	--	8,454	4.02	340	--	---	--	---	352	79	141	1.67	211
1947-48	3/18,573	494,036	26.6	--	8,429	4.01	338	--	---	--	---	388	95	165	1.96	223
1948-49	3/22,312	586,815	26.3	--	8,701	4.02	350	--	---	--	---	390	85	156	1.79	234
1949-50	3/24,841	675,685	27.2	--	8,949	4.01	359	--	---	--	---	359	76	147	1.64	212
1950-51	3/26,134	721,311	27.6	--	8,983	4.02	361	--	---	--	---	370	81	154	1.71	216
1951-52	3/26,423	768,916	29.1	--	9,015	3.97	358	--	---	--	---	399	87	165	1.83	234
1952-53 4/	18,557	525,346	28.3	--	9,069	3.96	359	30	56	37	168	461	101	194	2.14	267
1953-54	26,834	748,234	27.9	--	9,117	3.96	361	28	55	37	174	434	93	188	2.06	246
1954-55	28,727	822,254	28.6	--	9,261	3.94	365	28	61	37	178	429	89	183	1.98	246
1955-56	28,254	849,344	30.1	--	9,470	3.93	372	29	64	39	174	433	86	181	1.91	252
1956-57	27,133	863,275	31.8	--	9,621	3.92	377	30	66	39	173	448	88	183	1.90	265
1957-58	27,525	900,269	32.7	--	9,787	3.91	383	31	69	40	171	462	92	190	1.94	272
1958-59	27,796	902,074	32.5	--	10,042	3.89	391	33	75	40	174	475	93	195	1.94	280
1959-60	23,220	795,892	34.3	--	10,045	3.89	391	33	76	40	169	479	93	196	1.95	283
1960-61	18,644	689,710	37.0	--	10,048	3.88	390	32	78	39	163	485	94	198	1.97	287
1961-62	22,853	882,827	38.6	--	10,676	3.87	413	36	82	40	175	502	103	207	1.94	295
1962-63	27,093	1,089,290	40.2	84	10,983	3.85	423	39	92	40	156	501	113	222	2.02	279
1963-64	27,893	1,173,099	42.1	84	11,428	3.84	439	42	98	38	151	521	120	237	2.07	284
1964-65	28,237	1,229,676	43.5	85	11,744	3.82	449	44	102	38	151	539	127	244	2.08	295
1965-66	28,013	1,260,621	45.0	85	11,885	3.81	453	45	108	36	114	559	133	256	2.15	303
1966-67	27,483	1,282,357	46.7	85	12,030	3.82	459	47	113	36	1/124	631	143	265	2.20	66
1967-68	25,447	1,257,600	49.4	85	12,121	3.81	462	48	120	34	134	667	149	271	2.27	395
1968-69	25,208	1,271,983	50.5	85	12,223	3.80	465	49	2/122	33	132	700	146	266	2.21	434
1969-70	23,130	1,227,860	53.1	85	12,428	3.79	471	50	124	32	129	736	153	273	2.23	463
1970-71	22,824	1,240,414	54.3	85	12,659	3.77	477	51	116	33	120	767	165	287	2.30	480
1971-72	20,987	1,211,464	57.7	85	12,775	3.75	479	52	116	30	122	791	174	301	2.39	490
1972-73	22,628	1,322,782	58.5	85	12,801	3.76	481	52	118	30	113	821	187	321	2.54	500
1973-74	20,083	1,217,462	60.6	85	12,604	3.74	472	51	118	29	116	989	262	422	3.40	567
1974-75	20,444	1,297,541	63.5	85	13,024	3.76	489	51	123	29	110	1,114	318	527	4.11	587

1/ DATA FOR 1939-40 THROUGH 1951-52 SENT ONLY TO INDIVIDUAL STATES AND NOT PUBLISHED IN CURRENT DHI LETTERS.

2/ ESTIMATED USING COWS PER HERD ON TEST ON JANUARY 1 OF SECOND YEAR OF TESTING YEAR.

3/ HERD NUMBERS AS REPORTED IN EACH ANNUAL REPORT (ALL HERDS ON TEST).

4/ ONLY COMPLETE RECORDS (OR THOSE REPORTED AS COMPLETE) USED IN TABULATIONS FROM HERE ON. THE NUMBER OF HERDS AND COWS WILL DIFFER FROM THE NUMBER ENROLLED. COWS AND HERDS FROM STATES NOT REPORTING COMPLETE RECORDS NOT INCLUDED.

5/ DATA UNAVAILABLE. AVERAGE OF ADJACENT YEARS USED.

6/ SOME DATA UNAVAILABLE. FIGURE INCLUDES CALCULATED AVERAGES FOR MISSING DATA.

TABLE 14.--SUMMARY OF OWNER-SAMPLER COW-YEAR AVERAGES FOR HERDS REPORTING COMPLETE DATA, 1962-75

TESTING YEARS	HERDS	COW-YEARS	COWS PER HERD	DAYS IN MILK	MILK	FAT	FAT	CONC.	SUCC. FOR-AGE	DRY FOR-AGE	PAS-TURE DAYS	VALUE OF PROD.	COST OF CONC.	FEED COST	FEED COST CWT. MILK	INCOME OVER FEED COST
	NO.	NO.	NO.	PCT.	LB	PCT.	LB	CWT	CWT	CWT	NO.	$	$	$	$	$
1962-63	4,165	136,781	32.8	83	10,785	3.72	402	37	83	46	147	460	113	219	2.03	241
1963-64	3,033	80,172	26.4	83	10,987	3.74	411	40	80	44	143	427	103	204	1.86	223
1964-65	6,355	197,385	31.0	84	11,470	3.72	427	41	89	44	1/137	486	119	228	1.99	258
1965-66	7,096	224,616	31.6	84	11,574	3.72	430	42	95	42	1/137	499	121	237	2.05	262
1966-67	7,537	243,943	32.4	84	11,645	3.72	433	43	98	43	1/137	563	130	242	2.08	321
1967-68	5,928	212,380	35.8	84	11,834	3.72	440	44	103	40	130	615	142	259	2.21	357
1968-69	7,614	263,703	34.6	84	11,953	3.71	443	46	1/104	41	123	633	133	243	2.05	391
1969-70	7,134	259,195	36.3	84	12,102	3.69	446	47	104	40	116	666	139	249	2.08	417
1970-71	6,792	254,890	37.5	84	12,292	3.68	452	48	93	39	106	696	147	258	2.11	439
1971-72	6,324	246,148	38.9	84	12,327	3.67	453	49	90	38	106	709	152	265	2.17	444
1972-73	6,570	257,026	39.1	84	12,214	3.71	453	49	94	38	96	728	156	277	2.30	450
1973-74	6,125	247,527	40.4	84	12,151	3.69	448	48	94	38	97	899	217	367	3.05	533
1974-75	5,562	234,692	42.2	84	12,303	3.72	458	47	103	38	90	967	271	478	3.93	489

1/ DATA UNAVAILABLE. AVERAGE OF ADJACENT YEARS USED.

TABLE 15.--COMPARISON OF PRODUCTION OF COWS ON OFFICIAL TESTING, OWNER-SAMPLER (O-S) TESTING, AND ALL OTHER COWS 1/

	OFFICIAL				OWNER-SAMPLER				ALL OTHER COWS 2/			SUPERIORITY: OF OFFICIAL: COWS		SUPERIORITY OF O.-S. COWS	
TESTING YEARS 3/	HERDS	COW-YEARS	MILK	FAT	HERDS	COW-YEARS	MILK	FAT	AVERAGE COW-YEARS 4/	MILK	FAT	MILK	FAT	MILK	FAT
	NO.	NO.	LB	LB	NO.	NO.	LB	LB	NO.	LB	LB	LB	LB	LB	LB
1930	27,888	507,549	7,642	303	---	---	---	---	21,710,451	5/4,435	5/174	3,207	129	---	---
1940	27,948	676,141	8,133	333	---	---	---	---	22,994,859	4,519	179	3,614	152	---	---
1950	40,100	1,088,872	9,172	370	---	---	---	---	20,855,128	5,113	202	4,059	168	---	---
1959-60	41,293	1,746,752	10,561	409	24,274	615,899	---	---	15,345,349	6/6,522	6/244	4,039	165	---	---
1960-61	42,558	1,867,469	10,796	418	24,498	655,885	---	---	14,855,646	6,721	251	4,075	167	---	---
1961-62	42,034	1,958,355	11,032	426	24,954	698,302	---	---	14,385,843	6,919	257	4,113	169	---	---
1962-63	41,937	2,006,534	11,286	434	25,376	726,478	10,606	396	13,817,988	7/6,844	7/255	4,442	179	3,762	141
1963-64	40,670	2,010,144	11,685	447	25,598	752,229	10,885	404	13,206,127	7,148	263	4,537	184	3,737	141
1964-65	40,075	2,087,581	11,976	457	26,604	818,406	11,402	423	12,409,013	7,353	270	4,623	187	4,049	153
1965-66	38,879	2,058,592	12,127	462	26,259	839,839	11,472	425	11,613,569	7,530	276	4,597	186	3,942	149
1966-67	37,683	2,098,919	12,307	468	25,439	825,127	11,607	432	10,818,954	7,756	292	4,551	176	3,851	140
1967-68	36,869	2,131,929	12,397	471	25,143	847,485	11,847	441	10,144,086	8,035	292	4,362	179	3,812	149
1968-69	35,617	2,138,953	12,553	476	24,359	842,330	11,932	444	9,588,217	8,319	311	4,234	165	3,613	133
1969-70	34,308	2,122,011	12,750	483	23,281	839,343	12,185	453	8/9,192,146	8/8,622	8/312	4,128	171	3,563	141
1970-71	33,996	2,218,402	13,000	489	22,581	836,751	12,413	460	8/8,865,847	8/8,857	8/321	4,143	168	3,556	139
1971-72	33,197	2,244,685	13,226	496	21,345	805,555	12,544	466	8/8,715,760	8/9,134	8/332	4,092	164	3,410	128
1972-73	33,578	2,359,611	13,287	499	20,895	806,270	12,488	468	8/8,697,187	8/9,269	8/337	3,894	156	3,084	126
1973-74	33,146	2,416,669	13,163	493	19,738	783,195	12,353	463	8/8,114,136	8/9,109	8/331	4,054	168	3,244	132
1974-75	32,222	2,432,961	13,421	505	18,112	749,807	12,503	475	(9/)	(9/)	(9/)	(9/)	(9/)	(9/)	(9/)

1/ DASHES INDICATE DATA NOT TABULATED. ALL REFERENCES TO OFFICIAL DHI IN THE FOOTNOTES INCLUDE DHIR FROM 1959-60.

2/ DERIVED FROM U.S. COW POPULATION AND PRODUCTION FIGURES, EXCLUDING HEIFERS NOT FRESH, PUBLISHED IN DAIRY STATIS., ECON. RES. SERV., USDA, AND MILK PROD., STATIS. RPT. SERV., USDA. DATA FOR 1964-65 THROUGH 1971-72 REVISED.

3/ THE YEAR FOR WHICH DHIA ENROLLMENT IS GIVEN. FOR MULTIPLE YEARS, THE SECOND YEAR IS THE YEAR OF ENROLLMENT. MULTIPLE YEARS ARE GIVEN TO MATCH THE NATIONAL DHIA TESTING YEAR AFTER IT WAS CHANGED TO MAY 1-APRIL 30.

4/ THE FIGURES GIVEN FOR YEARS 1930, 1940, AND 1950 ARE THE REMAINDER OF THE U.S. COWS--EXCLUDING HEIFERS-NOT-FRESH--AFTER SUBTRACTING OFFICIAL DHI COWS FOR THE STATED YEAR. THE FIGURES FOR 1959-60 THROUGH THE END OF THE TABLE ARE CALCULATED AS IN THE FOLLOWING EXAMPLE: 1959 U.S. COWS, PLUS 1960 COWS, DIVIDED BY TWO, MINUS OFFICIAL DHI COWS, JANUARY 1, 1960, MINUS OWNER-SAMPLER COWS, JANUARY 1, 1960.

5/ FOR 1930, 1940, AND 1950, U.S. COW NUMBERS FOR EACH YEAR WERE MULTIPLIED BY THEIR AVERAGE PRODUCTION THAT YEAR; JANUARY 1 ENROLLMENT OF OFFICIAL DHI COWS WAS MULTIPLIED BY THE AVERAGE OFFICIAL DHI PRODUCTION FOR THE YEAR, AND THIS PRODUCTION WAS SUBTRACTED FROM TOTAL PRODUCTION OF U.S. COWS FOR THE YEAR TO OBTAIN THE PRODUCTION FOR ALL OTHER COWS. THE NUMBER OF ALL OTHER COWS WAS OBTAINED BY SUBTRACTING JANUARY 1 OFFICIAL DHI COWS FROM U.S. COWS FOR THE YEAR. PRODUCTION AVERAGES FOR ALL OTHER COWS WERE OBTAINED BY DIVIDING PRODUCTION VALUES BY COW NUMBERS.

6/ FOR 1959-60 THROUGH 1961-62, PRODUCTION FOR ALL OTHER COWS WAS CALCULATED AS IN THE FOLLOWING EXAMPLE: FOR 1959-60, U.S. MILK PRODUCTION FOR 1959 AND 1960 WAS AVERAGED. OFFICIAL DHI MILK PRODUCTION FOR 1959-60 WAS SUBTRACTED. THEN THAT FIGURE WAS DIVIDED BY THE AVERAGE COW YEARS CALCULATED AS EXPLAINED IN FOOTNOTE 4 TO GET AVERAGE MILK PRODUCTION FOR ALL OTHER COWS. FAT PRODUCTION FOR ALL OTHER COWS WAS CALCULATED IN THE SAME MANNER. OWNER-SAMPLER PRODUCTION WAS FIRST TABULATED BY USDA FOR 1962-63.

7/ FROM 1962-63 ON, PRODUCTION OF ALL OTHER COWS WAS CALCULATED AS EXPLAINED ABOVE, EXCEPT THAT OWNER-SAMPLER COW AND PRODUCTION TOTALS AS WELL AS OFFICIAL DHI TOTALS WERE SUBTRACTED FROM U.S. VALUES.

8/ PRELIMINARY.

9/ U.S. FIGURES FOR 1975 NOT AVAILABLE.

TABLE 16.--PRODUCTION AND VALUE OF PRODUCT FOR ALL U.S. MILK COWS, 1940-74 1/

YEAR	MILK COWS 2/			PRODUCTION PER COW			MILK PRODUCED	FAT PRODUCED	FARM VALUE OF MILK PRODUCED
	JAN. 1 3/	AVG. FOR YR.	DEC. AVG. 4/	MILK	FAT	FAT			
		THOU		LB	PCT.	LB	MIL LB	MIL LB	1,000 DOL
1940		23,671		4,622	3.97	183	109,412	4,343	1,930,935
1941		24,288		4,738	3.97	188	115,088	4,571	2,364,931
1942		25,027		4,736	3.97	188	118,533	4,704	2,867,340
1943		25,451		4,598	3.97	183	117,017	4,651	3,464,864
1944		25,597		4,572	3.98	182	117,023	4,657	3,567,852
1945		25,033		4,787	3.98	190	119,828	4,764	3,673,034
1946		24,089		4,886	3.97	194	117,697	4,677	4,512,653
1947		23,329		5,007	3.97	199	116,814	4,639	4,866,495
1948		22,336		5,044	3.97	200	112,671	4,478	5,295,194
1949		22,024		5,272	3.96	209	116,103	4,595	4,488,255
1950		21,944		5,314	3.96	210	116,602	4,618	4,431,995
1951		21,505		5,333	3.93	210	114,681	4,509	5,108,110
1952		21,338		5,374	3.90	210	114,671	4,476	5,425,543
1953		21,691		5,542	3.87	215	120,221	4,655	5,101,819
1954		21,581		5,657	3.86	219	122,094	4,717	4,757,279
1955		21,044		5,842	3.84	225	122,945	4,726	4,834,842
1956		20,501		6,090	3.82	233	124,860	4,773	5,075,318
1957		19,774		6,303	3.81	240	124,628	4,744	5,166,860
1958		18,711		6,585	3.78	249	123,220	4,658	5,037,729
1959		17,901		6,815	3.76	256	121,989	4,588	5,037,223
1960		17,515		7,029	3.76	264	123,109	4,628	5,158,116
1961		17,243		7,290	3.74	273	125,707	4,715	5,296,024
1962		16,842		7,496	3.74	280	126,251	4,718	5,182,148
1963		16,260		7,700	3.71	286	125,202	4,649	5,159,474
1964		15,677		8,099	3.70	300	126,967	4,699	5,304,899
1965		14,953		8,305	3.70	307	124,180	4,592	5,296,774
1966		14,071	13,756	8,522	3.69	314	119,912	4,426	5,801,039
1967		13,415	13,139	8,851	3.69	327	118,732	4,377	6,005,639
1968		12,832	12,571	9,135	3.67	335	117,225	4,305	6,206,150
1969		12,307	12,113	9,434	3.67	346	116,108	4,264	6,434,834
1970 5/	12,063	12,000	11,921	9,747	3.66	357	116,962	4,283	6,755,180
1971 5/	11,908	11,842	11,785	10,009	3.66	366	118,532	4,344	7,032,632
1972 5/	11,773	11,698	11,624	10,250	3.68	377	119,904	4,408	7,353,669
1973 5/	11,624	11,409	11,293	10,114	3.66	370	115,385	4,226	8,316,252
1974 5/	11,286	11,221	11,212	10,286	3.67	378	115,416	4,246	9,680,210

1/ DATA THROUGH 1959 OBTAINED FROM STATIS. BUL. 303, ECON. RES. SERV., 1962; FOR 1960 THROUGH 1964, FROM AGR. STATIS., 1971; FOR 1965 THROUGH 1973, FROM MILK PRODUCTION, DISTRIBUTION, AND INCOME, 1970-72, 1971-73, AND 1972-74; AND MILK PRODUCTION, APRIL 1973 AND FEBRUARY 1974, STATIS. RPT. SERV., USDA.

2/ EXCLUDING HEIFERS NOT YET FRESH.

3/ JANUARY 1 COUNT OF MILK COWS NOT TAKEN BEFORE 1970.

4/ DECEMBER COW NUMBERS NOT USED BY ANIMAL IMPROVEMENT PROGRAMS LABORATORY BEFORE 1966.

5/ PRELIMINARY.

U. S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
NORTHEASTERN REGION
AGRICULTURAL RESEARCH CENTER WEST
BELTSVILLE, MARYLAND 20705

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR 101

U.S.MAIL